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ABSTRACT

Longitudinal enrollment data and policy information collected via three surveys between 1988 and 1990 of all states were used to profile the status of secondary school student participation in vocational programs in the United States. Participation was examined through analysis of high school and vocational enrollment trends between 1982-83 and 1989-90. These trends were then compared to changes in the states' educational policy to reveal any potential relationships between trends and policy. Data were analyzed for two primary groupings of states: those with increasing vocational enrollments (19 states) and those with decreasing enrollments (31 states). Fourteen states in the first group showed declines in overall high school enrollments. Clearly three-fourths of the second group showed much steeper declines in vocational education. An examination of policy implementation and programmatic reforms suggested that states evidencing stable or increased vocational enrollments were characterized by proactive attempts to reform or restructure vocational education. (The 25-page report is followed by extensive appendixes, including the state survey instrument and state by state enrollment data tables. These tables show high school and total vocational enrollments as well as vocational program teaching area enrollments. Appropriate percentage of change statistics are also provided.) (YLB)

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National Center for Research in Vocational Education

University of California, Berkeley

U.S. ENROLLMENT PATTERNS IN SECONDARY VOCATIONAL EDUCATION: A STATUS REPORT (1983-1990)

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U.S. ENROLLMENT PATTERNS IN SECONDARY VOCATIONAL EDUCATION: A STATUS REPORT (1983-1990)

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TABLE OF CONTENTS

Executive Summary i
Introduction 1
Methodology 2
Results 8
Group 1 – States with Increased Vocational Enrollments 8
Group 2 – States with Decreased Vocational Enrollments 10
Impact of Policy 12
Discussion 23
References 25
Appendix A: State Survey Instrument 27
Appendix B: State by State Enrollment Data Tables 57

EXECUTIVE SUMMARY

Longitudinal, extant enrollment data and policy information collected via three survey administrations between 1988 and 1990 to each state were used in this report to profile the status of secondary school student participation in vocational programs in the United States. Participation was examined through analysis of high school and vocational enrollment trends between 1982-1983 and 1989-1990. These trends were then compared against changes in the states' educational policy to reveal any potential relationships between trends and policy.

The report begins with a methodological section detailing the procedures used for collecting and summarizing the data for each state. Results are then reported via data analyses within two primary groupings of states: those with increasing vocational enrollments (19 states) and those with decreasing vocational enrollments (31 states). Of the nineteen states with increased vocational enrollments, fourteen showed declines in overall high school enrollments. On the other hand, for the thirty-one states with declining vocational enrollments, clearly three-fourths of these states showed much steeper declines in vocational education than in overall high school enrollments. An examination of policy implementation and programmatic reforms suggests that states evidencing stable or increased vocational enrollments are characterized by proactive attempts to reform or restructure vocational education—a task sometimes complicated by reform efforts aimed at the overall delivery of public education in the states. A brief discussion of the results focuses on the sustaining, although limited, power of vocational education when proactive or reform-oriented approaches to general education reform policies are pursued. The one, methodological concern of this study, data integrity, is suggested to be symptomatic of the generally resistant response of vocational education to reform activities. This resistance to change or to consideration of the impact that *nonreform* has had on vocational education clearly handicaps the ability of these programs to continue as a viable force in secondary education.

Data summaries in this report are supported by an extensive appendix. Appendix B provides the data table for each state that was used for preparation. High school and total vocational enrollments as well as vocational program teaching area enrollments are included on each table. Appropriate percentage change statistics are also provided.

INTRODUCTION

Public demand for education reform has resulted in the implementation of new or revised education policies which appear to have influenced secondary school students' participation in vocational education. As a result, the role of vocational education in the secondary school has come under increased scrutiny and questions have been raised as to the delivery and structure of programs.

While most studies of vocational enrollments focus on regional- or state-level impacts of education reform on vocational education, the National Assessment of Vocational Education (NAVE) looked at national trends in student choice relative to participation in vocational education. According to the NAVE study (Wirt, Muraskin, Goodwin, & Meyer, 1989), secondary students planning to continue their education took substantial amounts of vocational education. More specifically, students planning to attend postsecondary vocational-technical education accounted for 26.5% and four-year, college-bound students accounted for 47.9% respectively of all vocational credits taken by high school students. In contrast, work-bound students accounted for only 25.2% of all vocational credits and only 26.4% of all occupationally specific vocational credits.

In a study conducted by Gray (1990), evidence was found that declines in central Pennsylvania high school vocational education enrollments were attributable to a shift in student preference for college preparatory courses. Gray reported that between 1985 and 1988, high school graduates completing the academic curriculum increased from twenty-eight percent to forty-six percent. During that same period, vocational education enrollments declined thirty-two percent while overall high school enrollment had a reduction of only nine percent. Gray concluded that vocational education's role may be changing in light of graduates' increasing preference for continuing their education.

Rossetti (1990) had similar findings from a study conducted among eleventh graders not enrolled in vocational education courses. An analysis of survey data collected from five high schools located in southwest Ohio indicated that the most frequently cited reason for not enrolling in vocational education was planning to go to college.

Another factor to consider in examining vocational enrollment patterns is that of demographic shifts in the nation's secondary school population. Accompanying the decline

in the numbers of students enrolled in vocational education is a corresponding general decline in the secondary school population. According to a study by Strickland, Frantz, and Elson (1990), between 1984 and 1988 vocational enrollments declined in thirty-two states. In twenty of these states, this decline was about the same or greater than that for overall high school enrollment. In the remaining states with vocational enrollment increases, overall high school enrollments either decreased (twelve states) or increased at a lesser rate than vocational enrollments (six states). Apparently, in these latter instances, policies and practices were being used successfully to improve participation in vocational education.

This document reports on a nationwide, longitudinal program of research funded in part by the National Center for Research in Vocational Education (NCRVE). The purpose of this research was (1) to explore longitudinally the status of participation in secondary vocational education, and (2) to examine the impact of concurrent education reform policies and practices on vocational education. This document is strictly a descriptive report, summarizing data on secondary students' participation in vocational education and the corresponding policies and strategies that vocational administrators identified as having had an impact on such participation. Due to the limitations of data collection and the inconsistent reporting procedures across and within states, analyses for this report focused simply on the identification of trends in statewide secondary and vocational enrollments. A journal for each state documenting education reform policies and/or reform activities provided the data for examination of policies/practice given selected patterns of vocational enrollment.

METHODOLOGY

Development of the longitudinal database for this research program began with an existing database established through an earlier, independent research project conducted by Frantz, Strickland, and Elson in 1987. For that project, longitudinal enrollment data was collected through a mail survey to each state director of vocational education asking for consistent, extant data on enrollments in vocational education and enrollments in secondary education (grades nine through twelve) for their state between 1983 and 1987. Respondents were asked to document both the source and format of all data and to indicate a contact person for possible follow up to clarify questions on the data.

Verification of the Frantz, Strickland, and Elson extant database and continuation of the data collection efforts for the longitudinal project reported in this document were accomplished through the use of individualized survey collection forms for each state. The survey was administered each year between 1988 and 1990. The individualized state surveys were comprised of three basic parts: (1) a cover sheet with general instructions applicable for use with all state surveys; (2) an enrollment data edit sheet and an enrollment data page; and (3) a policy update or supplemental information form and policy journal page(s)—see Appendix A for one example of the data collection instrument used in the 1990 survey administration. The enrollment data edit sheet fashioned for each state noted discrepancies, inconsistencies, and general concerns relevant to previously reported data and requested sources for all data. In addition, the enrollment page was used to allow each respondent to record new information for more recent school years and to correct figures for previous years as needed. The policy update form instructed each state respondent to review the attached policy journal for his/her state and to update or revise the journal as applicable. In addition, questions related to policies or strategies implemented in the states were included as needed for clarification or follow-up given previous survey information.

While data verification and continued collection of more recent enrollment and policy data were the initial concerns of this project, the need to document further the various methods of reporting vocational enrollment statistics across the states quickly became evident. Whereas, this project did not mandate a standard measure of participation or enrollment in vocational education and its separate program teaching areas, data collection depended on the reporting of extant data available from the states. Nevertheless, the researchers did encourage states (1) to report high school, total vocational and vocational program teaching area enrollments for grades nine through twelve only; (2) to report that data which was most consistent over the time period requested; (3) to identify whether the reported enrollment data represented duplicated or nonduplicated counts; and (4) to provide the specific sources for all reported data.

For reporting purposes, vocational program teaching areas were designated as agriculture, business, health, nonoccupational home economics, occupational home economics, marketing, industrial arts and trade, and industrial education. This raised several issues of concern. First, given the time frame of the study, the transition of industrial arts programs to technology education made consistent reporting or documenting of these enrollments difficult. Early on in the project, many states had not made the change

from reporting industrial arts enrollments to technology education enrollments—hence, some confusion in how to request enrollment data for this teaching area. Additionally, many states reported that industrial arts or technology education programs were considered prevocational and, consequently, this data was not included in any total vocational figures. Most of these accommodations are documented in the footnotes of each state's data table (see Appendix B). However, some states did not respond to continued inquiry about the nature of reporting changes in this area. The documentation of reporting practices for this teaching area were limited. Other problems in reporting vocational enrollments by teaching area focused mainly on the issue of definition. For example, Indiana simply does not collect data by the teaching areas as designated in this project. Rather, vocational enrollments are collected by Classification of Instructional Program (CIP) codes which often did not easily collapse into the teaching areas as defined for this study. Finally, with the advent of technical education or Tech Prep programs, special needs programs, or other state specific program designations, the need to allow for reporting of other vocational teaching program areas was required. Each state data table includes footnotes indicating the definition of these other programs, their inclusion or exclusion in the state's total vocational enrollment figure, and other pertinent information as provided by the state.

The enrollment edit sheet and data page allowed for documentation of the type (i.e., duplicated, nonduplicated, or other) of enrollment figures available for a given state, as well as for information on sources. The latter was requested to enable the researchers to ascertain consistent reporting by each state in repeated survey administrations; however, this in no way *assured* consistent reporting of data. High school enrollment for most states was nonduplicated headcounts for grades nine through twelve. As for vocational enrollment data, three *general* patterns of reporting were revealed: (1) states which provided nonduplicated counts of enrollment in vocational education such that a student counted once in agriculture was *not* counted again in any other program teaching area including agriculture; (2) states which provided duplicated counts of enrollment such that a student enrolled in two agriculture classes and one business class was counted twice in agriculture and once in business; and (3) states with a mixture of both nonduplicated and duplicated counts where duplicated counts typically characterized reporting for nonoccupational program service areas (e.g., nonoccupational home economics and technology education) and nonduplicated counts characterized reporting for occupational program service areas (e.g., agriculture, business, and marketing). Such variances in reporting practices presents major obstacles to data analysis. For example, consideration of

the proportion of total secondary school students participating in vocational education is precluded when duplicated enrollments are reported for vocational education versus nonduplicated enrollments for the total secondary school figure. In this instance, reported vocational enrollments could be much greater than reported overall high school enrollments (see Nebraska, Georgia, and Florida data tables in Appendix B) and, hence, suggest that more than one-hundred percent of all secondary students participate in vocational education!

Other reporting concerns involved acquiring data for the same grade cohorts. Some states have high school membership data for grades nine through twelve, but vocational enrollments are aggregated for grades six through twelve or eleven through twelve or some other cohort grouping. Other states (e.g., New Mexico, Tennessee, Wyoming) were unable to report enrollments for grades nine through twelve alone, using instead grade levels six through twelve or seven through twelve. The most serious concern, however, has to do with consistent reporting methods over the data collection period. More recently, several states have revised their reporting procedures to include vocational enrollment in nonfederally funded programs. One state, Alaska, has only recently implemented a formal, systematic process of data reporting while other states have revamped their processes altogether (e.g., California, Florida, Montana).

Information obtained from the surveys and from follow-up contacts regarding data definition and documentation were recorded in a footnote file. These notes were appended to each state's data table for reporting purposes. More importantly, however, these notes were critical to decisions regarding analysis of trends and/or policy information. Each survey administration included these notes on the enrollment data sheets, and state respondents were asked to review these notes carefully for accuracy and completeness. Any changes made to the footnotes between survey administrations were cleared through the appropriate respondent.

In general, all survey forms and correspondence were sent to state directors of vocational education. However, various state directors often directed their surveys to a given individual in the state department—usually one who was responsible for data collection or administrative operations. In those cases, the research staff contacted the designated individual and/or the state director as needed regarding completion of survey forms and follow-up questions. Once a survey was received, it was screened for

completeness and internal compatibility. Care was taken to be sure that vocational totals for each year were based on similar subgroups of program teaching area enrollment. For example, in the event that new categories of vocational enrollment were included in more recent years that were not present or available during earlier reporting years, the more current data was revised to be consistent with the earlier data. Typically, the revisions simply meant the deletion of industrial arts and/or other categories (e.g., special needs, not elsewhere classified, and entrepreneurship) of enrollment from the more recent vocational enrollment totals. On the other hand, initiation of new programs garnering new enrollments in vocational education generally were not deleted from vocational figures given the state indicated these enrollments were appropriate for inclusion in the sum figure.

Because of the limitations in data reporting, it should be clear that analyses were limited to straightforward descriptions of the trends evidenced on a state-by-state basis. Obviously, the data reported in this document is not a reliable source of exact enrollment figures, but given the precautions noted in this report, it can be used to indicate enrollment *trends*. Once the data was reviewed and documented as thoroughly as possible, analysis of trends was possible. Several approaches were attempted to obtain a general measure for separating the states into like trend categories, including the overall percent change between base year and most current year data, the average annual percent change over the data collection time frame, and the year-to-year percent changes. Use of the overall percent change measure was problematic in that the base year and most current year of data was not the same for all states. In addition, limiting the measure of change to only two data points overlooked the incremental changes made year to year. Use of the average annual percent change allowed inclusion of all available, consistent data points for each state. This measure was used in conjunction with analysis of year-to-year changes in vocational enrollment to determine the most accurate depiction of trends given the data available. While the average annual percent change proved to be a more acceptable measure than the overall percent change between base year and most current year data, other alternative measures should continue to be investigated.

Based on results using the average annual percent change, states were divided into two primary groups: Group 1—those states in which vocational enrollments had *on the average* increased each year and Group 2—those states in which vocational enrollments had *on the average* decreased each year. The corresponding average annual percent change for high school enrollments was then determined for each state in Groups 1 and 2. Based on

the direction of their high school trends, the states were further divided into subgroups within Groups 1 and 2. In general, four subgroups were identified within each major group. State subgroups within Group 1 (states with increased vocational enrollments) included those states where high school enrollments had decreased (Subgroup 1); increased at a rate less than the rate of increase in vocational enrollments (Subgroup 2); increased at about the same rate as vocational enrollments (Subgroup 3); and increased at a rate greater than that for vocational enrollments (Subgroup 4). Subgroups within Group 2 (states with decreased vocational enrollment) included those states where high school enrollments had decreased at a greater rate than vocational enrollments (Subgroup 1); decreased at about the same rate as vocational enrollments (Subgroup 2); decreased at a lesser rate than vocational enrollments (Subgroup 3); and increased (Subgroup 4). Average annual percent changes in high school enrollments were computed to be comparable with that computed for vocational enrollments. In other words, if only three years of data for vocational enrollments were consistently reported, the average annual percent change calculated for both vocational enrollments and for high school enrollments was based on the same time frame.

Once the subgroups were designated within each group, a matrix for each group/subgroup was developed to highlight selected policy changes and practices in the states as reported in their policy journals. The matrix included four areas of information: (1) indication of changes in high school graduation requirements, (2) indication of the use of vocational courses as alternatives for credit in academic subjects, (3) indication of negative policy influences on vocational enrollments, and (4) indication of positive influences on vocational enrollments. While high school graduation requirements represent only one component in the whole maze of reform related strategies, it continued to be the major change made in most states over the time frame of the study. Vocational courses serving as alternatives for academic credit were found to be a piece of information coincident with that on graduation requirements.

RESULTS

Group 1 – States with Increased Vocational Enrollments

Based on analysis of the available data periods for each state, nineteen states were designated as falling into Group 1. These states were further classified into four subgroups based on relative trends in high school enrollment: (Subgroup 1) states where vocational enrollment *increased* and high school enrollment *decreased*; (Subgroup 2) states where vocational enrollment increased at a *greater* rate than high school enrollment increased; (Subgroup 3) states where annual percent changes in vocational and high school enrollments were *on the average about the same*; and (Subgroup 4) states where vocational enrollment increased at a *lesser* rate than did high school enrollments. These states are listed by subgroup in Table 1 with their average annual percent changes in vocational and high school enrollments.

Fourteen states were identified in the first subgroup (vocational enrollment increased and high school enrollment decreased). While Table 1 provides the average annual percent changes over all data years for each state, detailed information on year-by-year changes are available in Appendix B. Generally, analysis of year-by-year data for the states in Subgroup 1 supports their classification based on the average annual percent change.

Four states were in Subgroup 2 (vocational enrollment increase greater than high school enrollment increase). Observation of year-by-year data corroborate each of these classifications. Increases in vocational enrollments exceed that for high school enrollments by well over one percent.

While analyses prior to the 1990 data collection resulted in several states falling into this subgroup, the more recent data did not provide any observations in subgroup three. Percent changes needed to be within .5 units of each other to classify a state in this subgroup.

Subgroup 4 included states where vocational enrollments increased at a *lesser* rate per year, percentage-wise, than did high school enrollments. One state fell into this subgroup. Examination of year-by-year data suggested that vocational enrollments in Utah have increased over the last three years after several years of decline. Consequently,

vocational enrollments appear to be strengthened despite the apparent disparity in growth relative to high school enrollments.

Table 1

Increased Vocational Enrollment Group:
Average Percent Changes by State Subgroups

(Average percent changes were calculated from enrollment data between 1982 and 1989 [as available])

Subgroup	State	Vocational Change	High School Change
Subgroup 1: Vocational Enrollment Increased and High School Enrollment Decreased	Alabama	2.2	-0.8
	Arkansas	4.9	-1.0
	California	0.4	-0.4
	Delaware	0.3	-3.3
	Georgia	1.0	-0.9
	Hawaii	0.8	-0.6
	Iowa	0.3	-2.7
	Kansas	1.0	-0.7
	Montana	11.4	-1.2
	New Mexico	4.7	-0.2
	Oregon	2.7	-0.5
	Virginia	3.3	-0.5
	West Virginia	4.1	-0.8
	Wyoming	1.8	-0.4
Subgroup 2: Vocational Enrollment Increase Greater Than High School Enrollment Increase	Florida	6.6	0.1
	Idaho	1.7	0.3
	Texas	2.7	1.4
	Washington	2.4	0.3
Subgroup 3: Vocational Enrollment Increase About the Same As High School Enrollment Increase	None	None	None
Subgroup 4: High School Enrollment Increase Greater Than Vocational Enrollment Increase	Utah	0.6	2.7

Group 2 – States with Decreased Vocational Enrollments

Thirty-one states and the District of Columbia were identified as experiencing decreased vocational enrollments over the available time frame. These states were further classified into four subgroups relative to high school enrollment trends in these states. The subgroups were identified as: (Subgroup 1) states where vocational enrollment decreased at a *lesser* rate per year than high school enrollment decreased; (Subgroup 2) states where overall changes in vocational and high school enrollments were *on the average about the same*; (Subgroup 3) states where vocational enrollment decreased at a *greater* rate than high school enrollment decreased; and (Subgroup 4) states where vocational enrollment *decreased* and high school enrollment *increased*. These states are listed by subgroup in Table 2 with their average annual percent changes in vocational and high school enrollments.

Three states and the District of Columbia were identified in the first subgroup (vocational enrollments decreased at a lesser rate than did high school enrollments). It should be noted that New Jersey data was only reported up through 1987-1988. Recent changes in education policy in that state may not yet be reflected in the enrollment figures available for this report.

Five states were determined to be in Subgroup 2, where annual percent changes in vocational and high school enrollments were, on the average, about the same. Average annual percent changes for these states were generally within 0.3 percentage points of each other. Four of these states evidenced somewhat greater vocational declines on the average than high school declines. However, examination of year-to-year data made it difficult to determine whether or not vocational enrollments would continue to exceed the rate for high school enrollment declines or would begin to improve upon the high school rate.

Subgroup 3 included twenty-one states where the average annual percent decline in vocational enrollments was greater than that for high school enrollments overall. The differences in rate of decline ranged from a low of .6 (Missouri) to a high of 11.1 (Massachusetts). Two states were identified for Subgroup 4 where vocational enrollments decreased while high school enrollments increased.

Table 2

Decreased Vocational Enrollment Group:
Average Percent Changes by State Subgroups

(Average percent changes were calculated from enrollment data between 1982 and 1989 [as available])

Subgroup	State	Vocational Change	High School Change
Subgroup 1: Vocational Enrollment Decrease Less Than High School Enrollment Decrease	Distict of Columbia	-1.0	-4.0
	Louisiana	-0.1	-1.1
	New Jersey	-1.8	-2.9
	Oklahoma	-0.3	-0.9
Subgroup 2: Vocational Enrollment Decrease About the Same As High School Enrollment Decrease	Maryland	-3.3	-3.0
	Mississippi	-1.4	-1.1
	North Dakota	-1.5	-1.2
	Tennessee	-0.8	-0.8
	Wisconsin	-2.3	-2.2
Subgroup 3: Vocational Enrollment Decrease Greater Than High School Enrollment Decrease	Alaska	-3.8	-2.4
	Colorado	-1.6	-0.8
	Connecticut	-7.9	-5.9
	Illinois	-3.6	-1.2
	Indiana	-1.8	-1.1
	Kentucky	-2.6	-0.3
	Maine	-3.4	-2.1
	Massachusetts	-9.9	-3.9
	Michigan	-3.9	-2.6
	Minnesota	-2.9	-1.3
	Missouri	-2.0	-1.4
	Nebraska	-0.8	-0.1
	New Hampshire	-2.5	-0.9
	New York	-3.8	-2.7
	North Carolina	-0.9	-0.2
	Ohio	-1.8	-1.3
	Pennsylvania	-9.7	-2.7
	Rhode Island	-8.5	-3.9
	South Carolina	-2.4	-0.6
	South Dakota	-1.6	-0.2
	Vermont	-6.3	-0.7
Subgroup 4: Vocational Enrollment Decreased and High School Enrollment Increased	Arizona	-1.1	1.2
	Nevada	-1.0	1.1

Impact of Policy

A summary of the policy/practice highlights for each state by group/subgroup is provided in Tables 3 and 4. Table 3 summarizes data for state subgroups within Group 1, the increased vocational enrollment group; Table 4 summarizes policy data within Group 2, the decreased vocational enrollment group. Briefly, it was determined that states in Group 1, the positive vocational enrollment group, generally evidenced the following policy activities or practices:

- 2+2 programs, advanced credit, articulated programs—that is, "aggressive pursuit of secondary/postsecondary agreements."
- Exploratory, cluster, orientation or career preparation programs in middle schools or grades nine through ten.
- Accreditation standards requiring vocational education availability (or at least access).
- Flexible scheduling and restructured programs.
- Integrated vocational/academic curricula efforts.
- Recognition of vocational education in graduation requirements or as alternatives for academic credit.

For states within Group 2, the negative vocational enrollment group, it was not just a matter of evidencing a different set of factors but more a matter of *not* evidencing those factors noted for the increased vocational enrollment group. Nevertheless, several common features, listed below, were indicated by these states as factors in the negative growth of vocational enrollment:

- Academic bandwagon emphasis in development of new graduation requirements or accreditation standards.
- Traditional, vocational programs, multiyear programs, three to four hour block courses, travel time to vocational training centers (VTC).
- Increased postsecondary entrance requirements.

Table 3

Increasing Vocational Enrollments: Policy Summary by State Subgroups

Subgroup 1	Graduation Requirements	Vocational Alternatives	Negative Impacts	Positive Impacts
AL	Requirements increased; vocational education required	Business Math/English		Flexible scheduling and new approaches
AR	Requirements increased	Technical education and other vocational education for social studies		State initiative for at-risk students; career orientation required in grades seven and eight; twelve units vocational education must be offered in accredited schools; State standards require access to three occupational programs in each LEA
CA	Requirements increased; no vocational education required	Very limited		Policies to develop and sustain program quality have been initiated
DE	Requirements increased; no vocational education required	Local option (typically Business Math or Agriculture Science)	Block programs and school schedules conflict, hinder students from enrolling—but . . .	2+2 programs, exploratory programs, special needs enrollments Area VTCs being made full-time—reduces travel time and schedule conflicts
GA	One unit vocational education or arts required	Local option	Graduation requirements	
HI	Requirements increased; no vocational education required	None after 1988—had included vocational education, technical education, and electronics		2+2 program, exploratory/ orientation programs
IA	Minimum requirement of at least five units of occupational education	Local option		Exploratory cluster programs, eight-period day, articulation emphasis
KS	Requirements increased; no vocational education required, but nine electives required			Integrated vocational education and academics: Principles of Technology, Applied Mathematics, Applied Communication

Table 3 (cont.)

Subgroup 1 (cont.)	Graduation Requirements	Vocational Alternatives	Negative Impacts	Positive Impacts
MT	Requirements increased; no vocational education required	Business Math/English	Agriculture decreased	Postsecondary requirements; Vocational education may substitute for foreign language; state project on vocational education expected to have major effect on vocational education
NM	Requirements increased; no vocational education required	Underdeveloped	Increase in academic requirements and decrease in electives; GPA of 2.0 required for extracurricular activities	State Department of Education beginning to recognize vocational education in lieu of basics such as mathmatics and English
OR	Requirements increased; no vocational education required, but vocational education is one of three options for required elective	Local option—usually agriculture for science (many choose this option)		Articulated programs, advanced credit, 2+2 programs
VA	Requirements increased; one unit of vocational education included	Yes	Additional requirements for college-bound students	Transfer credit policy
WV	Requirements increased; vocational education is one of three options for a required elective	Agriculture for science	Disadvantaged students miss out on vocational education because of stricter graduation requirements	State requires certain electives to be available in all schools
WY	Local option—most exceed state recommendation	Some locals looking into this		Two vocational education programs required in each school per accreditation standards; move away from exploratory to occupational in high school

Table 3 (cont.)

Subgroup 2	Graduation Requirements	Vocational Alternatives	Negative Impacts	Positive Impacts
FL	One unit of vocational education required	Yes		New graduation requirements seen as increasing basic skills of all (including vocational education) students; career preparation program
ID	Requirements increased; partial alternative for humanities	Agriculture for science; marketing for economics	Extended course schedules	Flexible scheduling
TX	Requirements increased; no vocational education required—requirements not seen as having impact on vocational education	None		
WA	Requirements increased; one year occupational education required—does not necessarily include approved vocational education courses	Local option—typical in most LEAs		2+2 programs, marketing programs

Subgroup 3	Graduation Requirements	Vocational Alternatives	Negative Impacts	Positive Impacts
None				

Subgroup 4	Graduation Requirements	Vocational Alternatives	Negative Impacts	Positive Impacts
UT	Vocational core part of high school requirements	Underdeveloped		

Table 4

Declining Vocational Enrollments: Policy Summary by State Subgroups

Subgroup 1	Graduation Requirements	Vocational Alternatives	Negative Impacts	Positive Impacts
DC	Requirements increased; no vocational education required	Math and science credits through integrated vocational courses	Restructuring of school system; lack of support	"Shared-time" schedules; concerted recruiting efforts
LA	Requirements increased; no vocational education required	Business Math, Business English, Data Processing	Decrease in electives; four-year programs; cooperative programs; requirements impact on electives when required course is failed	
NJ	1987–one unit vocational education or arts required (not fully implemented during survey)	None		
OK	Requirements increased; no vocational education required	Vocational Agriculture or Home Economics by local option	Postsecondary entrance requirements	Technical Education programs: Principles of Technology; Basic Skills Project

Table 4 (cont.)

Subgroup 2	Graduation Requirements	Vocational Alternatives	Negative Impacts	Positive Impacts
MD	Requirements increased; one unit partial alternatives required	Local option	Some local requirements are greater than state requirements for graduation	
MS	Requirements increased; no vocational education required	None	Performance-based accreditation system was academics only—ignored vocational education	
ND	Requirements increased state and locally	None	Students opting for other electives; decline in high school enrollment; poor economy (farms/energy field)	Postsecondary enrollment increased; more than one level course can be taught in same period; implementation of Principles of Technology
TN	Requirements increased; no vocational education required	Principles of Technology, Technical Math, Communications Technology, Agricultural Science		Vocational education had to change to survive—flexible scheduling (especially three-hour block), addition of basic courses to vocational education curriculum, and administrative workshops
WI	Requirements increased; no vocational education required	Yes		

Table 4 (cont.)

Subgroup 3	Graduation Requirements	Vocational Alternatives	Negative Impacts	Positive Impacts
AK	Requirements increased; no vocational education required	Local option	New funding formula	
CO	Local option			2+2 programs; advanced placement; postsecondary options bill; aggressive pursuit by community colleges of programs with high schools
CT	Requirements increased; one unit vocational education or art required	No/Yes . . . more recently on local basis	High school enrollment declines and graduation requirements	
IL	Requirements increased; no vocational education required	Local option	Postsecondary entrance requirements preclude electives like vocational education	Regional planning/ delivery of vocational education expected to help some
IN	Requirements increased; no vocational education required	Local option	Secondary vocational education decreasing or steady, postsecondary increasing; postsecondary entrance requirements; funding	New accreditation standards being developed; articulation among and between secondary and postsecondary schools; vocational education/ academic integration
KY	Requirements increased; no vocational education required	Local option; many involved	Graduation requirements hurt especially in Vocational Technology Centers; difficult to take courses longer than one-hour in length; one-hour classes OK, two- to three-hour classes hurt; postsecondary entrance requirements	Family life requirements; more options to integrate vocational education and academics locally

Table 4 (cont.)

Subgroup 3 (cont.)	Graduation Requirements	Vocational Alternatives	Negative Impacts	Positive Impacts
ME	Requirements increased; no vocational education required	1988, yes—through separate or integrated vocational education	Program instructional requirements did *not* address vocational education	
MA	Local option must have increased	Local and Board of Regents input pending	Graduation requirements; personnel cuts due to tax-cutting measures	
MI	State recommends, LEAs decide	Local option but few cases	Vocational Education declines with high school enrollment; per pupil dollar incentives available to districts adopting suggested high school requirements; impacts on time available for vocational education	
MN	No change	Possible? but no data	State Board increased requirements programs to be provided by LEAs; vocational education not included—very disappointing	
MO	Requirements increased; no vocational education required	One of four agriculture courses for one general science	High school graduation requirements; decrease in youth population; difficulty scheduling blocks and travel to Vocational Technology Center	

Table 4 (cont.)

Subgroup 3 (cont.)	Graduation Requirements	Vocational Alternatives	Negative Impacts	Positive Impacts
NH	Vocational education one of the options for required elective	Local option; must be approved by state . . . very few LEAs involved	Academic bandwagon; graduation requirements/ standards; increase in dropouts; decrease in two-year programs; handicapped/ disadvantaged image; noncoordination of local schedules with Vocational Technology Center	Increase in one-year programs; articulation, 2+2, and advanced credit (although inhibited by state process)
NY	Requirements increased; vocational education required in junior high—one unit technology education, 3/4 unit Home Economics	Occupational Math/ Science, Business Math, Agriculture, T and I	Traditional programs hurting enrollments and status	Vocational education up dramatically where traditional programs abandoned and restructured to make them responsive to business, society, and family
NC	Requirements increased; no vocational education required	Local option	Postsecondary entrance requirements could affect vocational education	Students are forcing graduation requirements in grades nine and ten so vocational education left until grades eleven through twelve. Vocational education increasing now but may change; accreditation requires three programs in each school, with a ration of one vocational education teacher per 95 students
OH	Requirements increased; no vocational education required	Integrated courses only	Vocational Technology Centers; cap on number of vocational education units State Department of Education can fund	Articulated programs expected to help; outcome study should impact positively on vocational education curriculum and negatively on general curriculum; integrated curriculum

Table 4 (cont.)

Subgroup 3 (cont.)	Graduation Requirements	Vocational Alternatives	Negative Impacts	Positive Impacts
NE	Requirements increased; no vocational education required	Yes—varies by locality	Graduation requirements; Perkins nonmaintenance clause	Vocational education included in core
PA	Requirements increased; no vocational education required	Yes as of 1988-1989	Vocational enrollment decreasing more than high school enrollment	
RI	Vocational education required for career-bound diploma	None		Vocational education steady despite changes
SC	Requirements increased; no vocational education required	Yes	Declines in grades nine and ten . . . students opting for remedial classes which count toward graduation	
SD	State increased but local requirements greater	None	Postsecondary entrance requirements will hurt high school vocational education and help postsecondary vocational education; teacher certification requirements have eliminated some vocational teachers	Working on vocational education alternatives; working on semester courses and Principles of Technology
VT	Requirements increased; no vocational education required	Yes, but . . .	Graduation requirements in eleventh and twelfth grades; scheduling; Vocational Technology Centers; two-year programs; increase in handicapped has given vocational education image as program for handicapped	Developing integrated concept; adults; need to work on mission of vocational education—spurred on by enrollment declines

Table 4 (cont.)

Subgroup 4	Graduation Requirements	Vocational Alternatives	Negative Impacts	Positive Impacts
AK	Requirements increased; no vocational education required	None		Integrated vocational education under development
NV	Requirements increased; no vocational education required	Local option		

- Funding caps on personnel or units of vocational instruction.
- Decline in high school population and/or state's economy.
- Lack of postsecondary coordination, exploratory/orientation thrust, integrated curricula efforts or program innovation.
- Image as program primarily for handicapped and/or disadvantaged.

DISCUSSION

For the moment, let us regroup the states into two new groups. The first group would include those state subgroups where, relative to high school enrollments, vocational enrollments were either doing about the same or better. The second group would include those state subgroups where vocational enrollments were either not keeping up with the pace of growth in high school enrollments or were, in fact, doing worse. This new, first group would then include the first three subgroups from the increasing vocational enrollment group and the first two subgroups of the decreasing vocational enrollment group. The remaining subgroups would fall to the new, second group.

Basically, the two groups split the states in half—twenty-seven in the first group (including the District of Columbia) and twenty-four in the second group. There is nothing scientific about this latter regrouping, but it does serve to make the point that in a majority

of states, vocational education seems to be holding its own in an education reform environment. Moreover, it is apparent that almost all states have experienced the trials of revised state accreditation standards, increased graduation requirements, and other reform related policy activities. Yet, vocational education programs in over half the states have managed to sustain themselves and, in a few cases, to thrive.

On the other hand, going back to our original Groups 1 and 2, it is clear that vocational enrollments are declining in well over half the states. Efforts to reform or restructure vocational offerings appear to have a positive effect on encouraging continued student participation in these programs, yet the pressures on students to meet increased academic, nonvocational requirements for high school graduation and/or entrance into postsecondary education certainly makes it difficult to accommodate these students' vocational interests. Clearly, resistance to restructuring vocational programs or to articulating high school with postsecondary vocational programs cripples the ability of vocational education to serve these students. Whether such resistance stems from a lack of leadership, from a diminished image of vocational education, from the inability of vocational education to address the changing needs or interests of secondary students, or from all of the above, is unclear and warrants further study.

In any event, problems and concerns continue in many states, but there are lessons to be learned from many more states. For those states who have not yet initiated efforts to restructure vocational program delivery, to pursue articulated programs with postsecondary institutions, or to integrate vocational programs with academic curriculum, time is of the essence. Secondary school reform issues have moved well beyond the single issue of high school graduation requirements and into issues of program delivery, parental versus student choice, vocational and educational outcomes, and secondary school program restructuring. Being in the mainstream of these changes is far more advantageous than being in the position of playing "catch up."

One final note has to do with data integrity. For many states, vocational data collection and management efforts appeared to be in critical condition. Most states have less than adequate systems for collecting secondary enrollment data that are consistent and reliable. Systems for vocational enrollment data collection were found to be particularly inconsistent and ill defined, a finding which was interpreted to be more symptomatic than problematic. Vocational education is having a difficult time finding itself in this era of

education reform. Without consistent, reliable enrollment data to allow for accurate accounting of students' participation and interest in new, restructured vocational programs, or even in the old, traditional programs, vocational education is rendered incapable of knowing where it is going. Leadership in developing a standard for reporting and tracking student participation is critical to the long term viability of vocational education. Whether this begins at the school, state, or federal level, the initiative must be taken to examine seriously and critically the impact of new and old paths of vocational program delivery before we completely lose our way.

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APPENDIX A

STATE SURVEY INSTRUMENT

(Example only)

NCRVE

National Center for Research in
Vocational Education

University of California, Berkeley

Dear

For the past three years, we have worked with you and all other state directors in establishing a national, longitudinal data base to study vocational enrollment trends. Through this process, you have provided both overall high school and vocational enrollment data as well as information on reform related policies and programmatic strategies implemented in your state. To continue this process, we have enclosed the following materials for your attention: (1) the 1990 survey for your state; (2) a pre-addressed, stamped postcard for indicating data availability for your state; and (3) a copy of the preliminary findings of this research. This survey packet is being sent directly to you and to the person designated by you to respond to prior VEPS surveys.

The Vocational Enrollment Patterns Study (VEPS) survey for this year consists of two parts. Part I asks you to review previously collected data and then report the most recent enrollment data for your state. Please note in Attachment 1 that "Industrial Arts" is still being used to refer to what is known in some states as Technology Education. We have found that many states have not yet made this change in title and it was easier to obtain the correct data by using the old title rather than the new one. Part II requests supplemental information on a variety of reform related policies and/or strategies and a review of the policy journal developed for your state from previous survey responses. Specific instructions for completing the survey document are given on the blue cover page.

The enclosed postcard should be completed and returned as soon as possible. We will use your responses on the postcard to determine the appropriate data status for each state.

The report on our preliminary findings is enclosed to keep you informed on the use of your data as well as the status of our findings. Ultimately, the data you provide in this survey will be incorporated into a final VEPS report and distributed nationally through the NCRVE publications bureau. Results will also be shared with U. S. Department of Education personnel in lieu of their conducting similar survey activities.

We anticipate meeting with you and other state directors at the fall NASDVTEC meeting to allow for your involvement in developing recommendations based on the outcomes of this study. If you would like to discuss the survey procedures or findings with us prior to that time, please feel free to contact us (703/231-9291). We appreciate your continuing cooperation in this effort.

Sincerely,

Deborah C. Strickland

Donald E. Elson

Nevin R. Frantz

Virginia Polytechnic Institute & State University
Division of Vocational & Technical Education
112 Lane Hall • Blacksburg, Virginia 24061 • 703-231-5982

NCRVE

National Center for Research in
Vocational Education

University of California, Berkeley

Vocational Enrollment Patterns Study

Name of Respondent: _____

Title: _____

Address: _____

_____

Phone: _____

Instructions

There are two main components to this survey document: Part I includes an Edit Sheet and an enrollment data sheet (Attachment 1); and Part II includes a Supplemental Information Survey form, a High School Graduation Requirements Table (Attachment 2), and a Policy Journal (Attachment 3).

Part I. (buff section)

1. Edit Sheet - Please review the edit sheet first. Items on the edit sheet refer to questions or "problems" we encountered in working with the 1982-83 through 1988-89 data reported for your state on Attachment 1. Respond to items on the edit sheet and make adjustments to Attachment 1 accordingly.

2. Attachment 1 - After making adjustments (as necessary) according to the Edit Sheet, complete Attachment 1 by providing the appropriate high school and vocational enrollment data for your state.

Part II. (green section)

3. Complete the Supplemental Information Survey form, which will also require that you review the Graduation Requirements Table provided in Attachment 2.

4. Attachment 3 - Please review the policy data provided by your state respondent(s) over the last three years. Revise Attachment 3 as needed.

Please return this entire document by July 15, 1990.

Virginia Polytechnic Institute & State University
Division of Vocational & Technical Education
112 Lane Hall • Blacksburg, Virginia 24061 • 703-231-5982

PART I

EDIT SHEET

ATTACHMENT 1:
ENROLLMENT DATA SHEET

VIRGINIA (FIPS Code 51)

Edit Sheet

Please review all figures and notes on your enrollment table (Survey Attachment 1). Make any changes/corrections directly on Attachment 1.

Below you will find a list of specific tasks and/or questions to be addressed in completing your data sheet. Please provide as much information as possible regarding the task/question indicated, so that we may appropriately analyze and document your data. Feel free to continue your responses, as needed, onto additional sheets of paper.

1. Please complete the data column for 1989-90.

2. There was a dramatic increase in vocational enrollments in 1988-89. Was this due to changes in reporting requirements or was this due to programmatic changes?

   _____
   _____
   _____

3. Please verify which data (i.e., high school, vocational and service area) are duplicated versus nonduplicated counts.

   _____
   _____

Please verify the following sources for the data provided on your enrollment survey sheet. These sources were indicated by the respondent to the 1989 version of this survey.

Total high school enrollment data:
Fall Membership in Virginia's Public Schools

Total vocational education enrollment data:
Vocational Secondary Enrollment Report

Vocational service area enrollments:
Vocational Secondary Enrollment Report

ATTACHMENT 1
ENROLLMENT DATA SHEET

VIRGINIA

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	293012	291985	297906	302866	301679	294047	283156	_____
% Change	.	-0.4	2.0	1.7	-0.4	-2.5	-3.7	
Vocational	347062	350955	347856	345380	337278	340492	414944	_____
% Change	.	1.1	-0.9	-0.7	-2.3	1.0	21.9	
Agriculture	23078	21803	20716	20099	19029	19072	20875	_____
% Change	.	-5.5	-5.0	-3.0	-5.3	0.2	9.5	
Business	106037	116445	119762	120113	117720	114716	139778	_____
% Change	.	9.8	2.8	0.3	-2.0	-2.6	21.8	
Health	3333	3449	3361	2942	2913	2900	3106	_____
% Change	.	3.5	-2.6	-12.5	-1.0	-0.4	7.1	
Non-Occ Hm Ec	73451	71021	69303	67922	64361	67124	91024	_____
% Change	.	-3.3	-2.4	-2.0	-5.2	4.3	35.6	
Occ Home Ec	4704	4686	4782	4896	5188	5236	5344	_____
% Change	.	-0.4	2.0	2.4	6.0	0.9	2.1	
Marketing	15050	14208	15068	15637	16020	16498	17187	_____
% Change	.	-5.6	6.1	3.8	2.4	3.0	4.2	
Ind Arts	76750	76279	72065	70967	68761	71597	94294	_____
% Change	.	-0.6	-5.5	-1.5	-3.1	4.1	31.7	
T & I	33067	31139	30849	30378	31049	31148	30755	_____
% Change	.	-5.8	-0.9	-1.5	2.2	0.3	-1.3	
a Other	8928	8826	8374	8789	8422	8191	8578	_____
% Change	.	-1.1	-5.1	5.0	-4.2	-2.7	4.7	
b Other	2664	3099	3576	3637	3761	3930	3898	_____
% Change	.	16.3	15.4	1.7	3.4	4.5	-0.8	
c Other	.	.	.	.	54	80	107	_____
% Change					.	48.1	66.2	

a) Disadvantaged

b) Handicapped

c) Gifted (these programs were not offered prior to 1986-87)

NOTE: All data are reported to be nonduplicated counts for grades 9-12.

SUPPLEMENTAL INFORMATION SURVEY

I. Information Update

1. Attachment 2 (at the end of this section) outlines high school graduation requirements for all states. Please verify the information for your state, paying particular attention to:

   Col 1 Graduating class for which requirements were first effective
   Col 10 Indication of VE courses that are included in the high school graduation requirements
   Col 11 Indication of VE courses that are recognized as alternatives to academic courses required for graduation

2. Attachment 3 (at the end of this section) provides the policy journal developed for your state from previous responses to VEPS surveys. Please review your journal and make revisions/updates as necessary.

II. Supplemental Information

1. Have postsecondary entrance requirements changed in your state during the last five years?

   Two-year institutions: _____ Yes _____ No

   If yes, please indicate the graduating class for which this change first became effective:
   _____

   Four-year institutions: _____ Yes _____ No

   If yes, please indicate the graduating class for which this change first became effective:
   _____

2. Have state school accreditation standards been changed during the last 5 years?

   _____ Yes _____ No

   If yes, what was the effective date of this change? _____

3. Does your state offer secondary vocational education in regionally-based centers?

_____ Yes _____ No

If *yes*, please respond to items 3a-3d below and then continue with items 4 and 5.

If *no*, go directly to items 4 and 5.

a) What "title" is used to identify these centers (e.g., vocational technical centers, BOCES, area vocational centers, etc.)?

_____

_____

b) How many such centers are there in your state? _____

c) Briefly describe the organization and function of these centers in the space below (enclose documentation, if available):

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

d) Are separate enrollment data collected for these centers?

_____ Yes _____ No

If yes, please provide enrollment data (as available) for the last five years:

1984-85	1985-86	1986-87	1987-88	1988-89

4. Several factors have been identified through previous VEPS surveys as having positive and/or negative effects on participation in vocational education. Several of these factors are listed below. Please indicate to what extent (if any) each factor has had an impact on students' participation in vocational education in your state.

	Negative	Somewhat Negative	No Effect	Somewhat Positive	Positive	NA
High school graduation requirements	1	2	3	4	5	____
Postsecondary entrance requirements	1	2	3	4	5	____
State school accreditation standards	1	2	3	4	5	____
Regional vocational centers	1	2	3	4	5	____
Integrated vocational-academic curricula	1	2	3	4	5	____
Traditional vocational program structures	1	2	3	4	5	____
Secondary/Postsecondary articulation efforts	1	2	3	4	5	____
Demographics (e.g., population, economy, unemployment, etc.)	1	2	3	4	5	____
Funding	1	2	3	4	5	____
Program restructuring	1	2	3	4	5	____
Other - Explain below:	1	2	3	4	5	

_____
_____
_____
_____
_____
_____

BEST COPY AVAILABLE

5. Considering the above factors, which do you feel has had:

a) the most positive influence on participation in vocational education

_____

_____

b) the most negative influence on participation in vocational education

_____

_____

Comments:

PART II

SUPPLEMENTAL INFORMATION SURVEY FORM

ATTACHMENT 2:
GRADUATION REQUIREMENTS TABLE

ATTACHMENT 3:
POLICY JOURNAL

ATTACHMENT 2 Minimum High School Graduation Requirements 86-89 Surveys

STATE	1 Grad Class	2 ENG	3 SS	4 MATH	5 SCI	6 PE/HE	7 ELEC	8 OTHER	9 TOTAL	10 VE Req.	11 VE Alt.	12 Notes
Alabama	88-89	4.00	3.00	2.00	2.00	0.50	9.50		22.00	No	Bus. math Bus. Eng.	
Alaska	84-85	4.00	3.00	2.00	2.00	1.00	9.00		21.00	No	Local Option	Grad. req. effective in '84.
Arizona	86-87	4.00	2.50	2.00	2.00		9.00	0.50	20.00	No	No	
Arkansas	86-87	4.00	1.00	5.00		1.00	10.00		16.00	No	1 unit of Prac.arts	5 units under math include required units in science
California		3.00	3.00	2.00	2.00	2.00		1.00	13.00	No	No	VE alt. only for some very isolated cases
Colorado												Local Boards determine the graduation requirements. No change since 1/87.
Connecticut	87-88	4.00	3.00	3.00	2.00	1.00	7.00	1.00	21.00	1 cre. of VE or Art	Yes	Districts may grant credit in academic subjects for voc. courses.
Deleware	84-85	4.00	3.00	2.00	2.00	1.50			19.00	No	Local Option	The additional 6.5 credits necess for graduation are designed by LEA's in accordance with approp course seq & elec available for each student.
D.C.	83-84								17.5 20.5	No	Math/Tech Sc & Tech	With VE Alt. 20.5 units are required.
Florida	85-86	4.00	3.00	3.00	3.00	1.00	9.00	1.00	24.00	.5 cre in Prac.Arts	Yes	
Georgia	87-88	4.00	3.00	2.00	2.00	1.00	8.00	1.00	21.00	1 unit of VE or oth	Prin of Technolog	VE accepted as alt to math, science and other academic credits.
Hawaii	86-87	4.00	4.00	2.00	2.00	1.50	6.00	0.50	20.00	No	No	
Idaho	87-88	5.00	2.50	2.00	2.00	1.50	6.00	2.00 (Hum)	21.00	Prac.Arts or Hum	Voc Ag Marketing	15 semester credits required after 1988.
Illinois	87-88	3.00	2.00	2.00	1.00	4.00	1.00	0.25 (Cons.Ed)	16.00	No	Yes	Any elective req. may be satisfied by coursework of the same length in Voc. Ed.

ATTACHMENT 2 (Continued) Minimum High School Graduation Requirements 86-89 Surveys

STATE	1 Grad Class	2 ENG	3 SS	4 MATH	5 SCI	6 PE/HE	7 ELEC	8 OTHER	9 TOTAL	10 VE Req.	11 VE Alt.	12 Notes
Indiana	88-89	4.00	2.00	2.00	2.00	1.50	8.00		19.50	No	Bus. Math Bus.Comm. Bus Eng.	
Iowa												Local boards determine graduation requirements.
Kansas	88-89	4.00	3.00	2.00	2.00	1.00	9.00		21.00	No	No	
Kentucky	86-87	4.00	2.00	3.00	2.00	1.00	8.00		20.00	Family life ed	Bus Math & others	
Louisiana	86-88	4.00	3.00	3.00	3.00	2.00	7.50	0.50 (Complit)	23.00	No	Bus Eng Bus Math Data Proc	
Maine	87-88	4.00	2.50	2.00	2.00	1.50		1.00	13.00	No	No	Voc students may, with the approval of the commissioner, satify 2nd year math, science, SS fine arts req. through sep/integrated study with voc courses
Maryland	86-87	4.00	3.00	3.00	2.00	1.00	5.00	2.00	20.00	1 unit of Prac Arts	Local Option	
Massachusetts			1.00			2.00						Local boards determine graduation requirements. Policy for acceptance of VE courses for academic credit under discussion.
Michigan	87-88	4.00	3.00	2.00	2.00	1.00	2.50			VE or other	Local Option	College bound (4yr) students are encouraged to take 1 add. yr of math, 1 add. year of science, and 2 more yrs in foreign language.
Minnesota	85-86	3.00	2.00			1.00			15.00			Grad. req. not increased; req. curriculum offerings increased. No firm data available regarding acceptance of VE for academic credit.
Mississippi	88-89	4.00	2.00	2.00	2.00		8.00		18.00	No	No	
Missouri	87-88	3.00	2.00	2.00	2.00	1.00	10.00	2.00	22.00	1 unit of Prac Arts	Vc Ag for Sci	
Montana	88-89	4.00	2.00	2.00	2.00	1.00	2.00	2.00	20.00	1 unit of Prac.Arts	No	18 units specified for grad.; 20 needed to graduate.
Nebraska										No	Local Option	VE part of core curriculum: 80% of the 20 credits req. must be from core curriculum.

ATTACHMENT 2 (Continued) Minimum High School Graduation Requirements 86-89 Surveys

STATE	1 Grad Class	2 ENG	3 SS	4 MATH	5 SCI	6 PE/HE	7 ELEC	8 OTHER	9 TOTAL	10 VE Req.	11 VE Alt.	12 Notes
Nevada	91-92	4.00	2.00	2.00	2.00	2.50	?	1.50	22.00	1 unit of Prac.Arts	Local Option	
New Hampshire	85-86	4.00	2.50	2.00	2.00	1.25	7.00	1.00	19.75	No	Local Option	Acad credits for voc program are being granted by some schools.
New Jersey	90-91	4.00	3.00	3.00	2.00	4.00				No	No	Grad. req. include these units but not limmited to these.
New Mexico	89-90	4.00	3.00	3.00	2.00	1.00	9.00	1.00	23.00	No		A policy statement for dual credit is under development.
New York	88-89	4.00 4.00	4.00 4.00	2.00 2.00	2.00 2.00	0.50 0.50	2.00 5.00	4.00 1.00	18.50 18.50	Tech Ed Hm/career skills	Yes	Req. for Regents' diploma. Req. for local diploma. Occupationally related Math & Science, business math, selected trade & tech. ag, health & tech. ed. programs are accepted for academic credit.
North Carolina	86-87	4.00	2.00	2.00	2.00	1.00	9.00		20.00	No	Local Option	Competency test required.
North Dakota	88-89	4.00	3.00	2.00	2.00	1.00	5.00		17.00	No	No	
Ohio	90-91	3.00	2.00	2.00	1.00	1.00	9.00		18.00	No	No	Grad. req. effective as of Sept. '87
Oklahoma	86-87	4.00	2.00	2.00	2.00		10.00		20.00	No	Local Option	Voc ag & voc hm econ accepted for academic credits when approved by local boards.
Oregon	87-88	3.00	2.50	2.00	2.00	2.00	8.00	2.50	22.00	1 unit of app. arts or others	Local Option	A district school board may increase or decrease req. or elective units but total units for grad. must not be less than 22
Pennsylvania	88-89	4.00	3.00	3.00	3.00	1.00	5.00	2.00	21.00	No	Bus Math Bus Eng Account'g	VE Alt should equal 120 clock hrs & have direct relationship to the course being substituted.
Rhode Island	87-88 88-89	4.00 4.00	2.00 2.00	3.00 2.00	2.00 2.00		4.00 6.00	3.00	18.00 16.00	No	No	Req. for college-bound students Req. for career bound students. VE included as elective for career bound students.

ATTACHMENT 2 (Continued) Minimum High School Graduation Requirements 86-89 Surveys

STATE	1 Grad Class	2 ENG	3 SS	4 MATH	5 SCI	6 PE/HE	7 ELEC	8 OTHER	9 TOTAL	10 VE Req.	11 VE Alt.	12 Notes
South Carolina	86-87	4.00	3.00	3.00	2.00	1.00	7.00		20.00	No	Comp sci Occ VE	
South Dakota	89-90	4.00	3.00	2.00	2.00		8.00	1.00 (CS or FA	20.00	No	No	Grad. Req. changed in 86, 87, 88, & 89.
Tennessee	86-87	4.00	1.50	2.00	2.00	1.50			20.00	No	Prin. of Tech. Tech math	
Texas	87-88	4.00	2.50	3.00	2.00	1.50	7.00	1.00	21.00	No	No	New reqmts. became effective in 1984-85.
Utah												The vocational core was included as part of the new reqmts. (1986 Survey)
Vermont	88-89	4.00	3.00	5.00		1.50		1.00	14.50	No	Yes	5 units under math include science req.
Virginia	87-88	4.00	3.00	1.00 2.00	2.00 3.00	2.00	6.00	1.00	21.00 (reg dip) 23.00 (adv dip)	1 unit in Prac Arts or F.arts	Yes	VE pgm completers may substitute credit for math & science. Grad. req. increased from 20 to 21 credits for regular diploma; 22 to 23 for advanced diploma.
Washington	88-89	3.00	2.50	2.00	2.00	2.00	5.50	2.00	19.00	1 yr of occ ed	Local Option	
West Virginia	86-87	4.00	3.00	2.00	2.00	2.00		1.00 app arts or others	21.00	1 unit of app arts	Bus math voc ag	
Wisconsin	88-89	4.00	3.00	2.00	2.00	2.00		0.50	13.50	No	Voc ag Bus Eng	
Wyoming										Local Option	Local Option	Local school boards determine graduation reqmts Local req often exceed state minimum req of 18 units.

ATTACHMENT 3

VIRGINIA (51)
Policy Journal

Survey Date	Information Obtained
March 1986	* State board of education has increased high school graduation requirements during the past five years. New requirements became effective July 1, 1984. * No vocational education was included as part of the new requirements for high school graduation. * An alternative to the requirement of a mathematics or science course to complete a 20-credit diploma program is provided for localities and is stated as follows: ...this requirement may be met by completing the sequence of courses needed for occupational preparation in one of the following programs--Agriculture, Business, Distribution, Health Occupations, Occupational Home Ec, and T&I. (From Occupational Preparation Program Options, Effective July 1, 1984, Department of Education, Division of Vocational Program Services, December 1983.) * One additional math and one additional science credit are now required of all high school graduates in Virginia. In addition, certain requirements prescribing additional math, science, and foreign language have been put into effect by the State Board for those students who receive the "Governor's Seal" or "Board of Education Seal". * Overall enrollment patterns in vocational education are proportional to statewide declining enrollment patterns.
January 1987	* Changes in graduation requirements effective for students graduating in 1987-88. * Summary of graduation requirements: Lang Arts 4 Social Studies 3 Math 1 Science 2 PE/Health 2 Elect 6 Other 0 Total 20 * Vocational program completers may substitute program credit for math or science requirement.

VIRGINIA - ATTACHMENT 3 continued

1988 Survey

1. **Changes to HS Grad. Reqmts since 3/86-1/87:** The State Board has increased the number of credits required for graduation as follows:

    a. from 20 to 21 for the regular diploma
    b. from 22 to 23 for the Advanced Studies Program diploma

2. **Changes in State Accred. Standards:** This increase in requirements has resulted from the addition of 1 credit in either fine or practical arts. It is believed that this may increase enrollments in vocational education to some extent.

3. **Changes in Postsec. Entrance Reqmts.:** None

4. **Implementation of Policies/Strategies w/implications on VE:** A secondary school shall accept credits received from other accredited secondary schools, including summer schools, special sessions, schools accredited through the Virginia Council for Private Education and educational programs operated by the state.

July, 1989 Survey

Journal changes

No changes have occurred in the graduation/program requirements information submitted on the 1988 survey.

Virginia's vocational enrollment will show a sizeable increase beginning with 1988-89 school year. This change is due to a data collection policy which does not discriminate between those courses in a sequence which lead to an occupational objective & those that are offered outside of a sequence and do not lead necessarily to an occupational objective. All vocational courses are now being captured in our enrollment figures.

Edit sheets responses

1. **The total Vocational Enrollment figures for 1985-86 and 1986-87 do not equal the sum of their respective service area enrollments for the same years. All other total Vocational Enrollment figures match their respective service area sums. Please verify the 1985-86 and 1986-87 figures.**

    Figures corrected

2. **The data appear to be inconsistently reported. Please clarify which data are duplicated and which are not. If consistent data can be obtained using duplicated data or course counts, please submit that data.**

   All data are duplicated.

3. **Special Needs data for 1982-83 through 1985-86 need to be reported.**

   Data reported.

Matrix changes

None

APPENDIX B

STATE BY STATE ENROLLMENT DATA TABLES

ATTACHMENT 1
ENROLLMENT DATA SHEET

ALABAMA

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	209763	206919	210846	208676	210376	208230	203299	198013
% Change	.	-1.4	1.9	-1.0	0.8	-1.0	-2.4	-2.6
Vocational	165861	164079	173962	183948	191590	201770	191800	191789
% Change	.	-1.1	6.0	5.7	4.2	5.3	-4.9	-0.0
Agriculture	32378	31846	33127	32802	32502	34024	33012	33337
% Change	.	-1.6	4.0	-1.0	-0.9	4.7	-3.0	1.0
Business	21690	22360	24014	26137	27753	28828	30530	30424
% Change	.	3.1	7.4	8.8	6.2	3.9	5.9	-0.3
Health	3418	3509	3470	3831	3842	3847	3940	4089
% Change	.	2.7	-1.1	10.4	0.3	0.1	2.4	3.8
Non-Occ Hm Ec	56618	55415	62170	67596	70414	76922	70064	70507
% Change	.	-2.1	12.2	8.7	4.2	9.2	-8.9	0.6
Occ Home Ec	4443	4092	4086	4466	4470	4290	3976	3915
% Change	.	-7.9	-0.1	9.3	0.1	-4.0	-7.3	-1.5
Marketing	6389	6477	6786	7231	7669	7832	7158	7353
% Change	.	1.4	4.8	6.6	6.1	2.1	-8.6	2.7
Ind Arts	9631	10093	10103	7891	8965	9394	8684	10071
% Change	.	4.8	0.1	-21.9	13.6	4.8	-7.6	16.0
T & I	30752	29732	29867	30925	31018	31158	29755	27464
% Change	.	-3.3	0.5	3.5	0.3	0.5	-4.5	-7.7
a Other	199	332	339	397	740	898	895	1030
% Change	.	66.8	2.1	17.1	86.4	21.4	-0.3	15.1
b Other	.	.	.	2672	4217	4577	3786	3599
% Change	.	.	.	.	57.8	8.5	-17.3	-4.9
c Other	343	223	.	.	.	.	.	.
% Change	.	-35.0	.	.	.	.	.	.

a) Technical Education

b) Prevocational programs

c) Remedial Programs

NOTE: Data for high school enrollment, Business, Health, Occupational Home Economics, Marketing, T&I and Technical are for grades 9-12; data for Agriculture, Consumer Home Ec., Industrial Arts and Prevocational are for grades 7-12.

ATTACHMENT 1
ENROLLMENT DATA SHEET

ALASKA

	1982-83	1983-84	1984-85	1985-86	[a] 1986-87	1987-88	1988-89	1989-90
High School	.	.	.	.	29977	28983	27348	27582
% Change	.	.	.	.	.	-3.3	-5.6	0.9
Vocational	.	.	.	.	18103	23487	22166	21712
% Change	.	.	.	.	.	29.7	-5.6	-2.0
Agriculture	.	.	.	.	275	273	272	200
% Change	.	.	.	.	.	-0.7	-0.4	-26.5
Business	.	.	.	.	6253	7715	7302	6918
% Change	.	.	.	.	.	23.4	-5.4	-5.3
Health	.	.	.	.	.	91	86	72
% Change	.	.	.	.	.	.	-5.5	-16.3
Non-Occ Hm Ec	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
Occ Home Ec	.	.	.	.	3078	3339	3286	3915
% Change	.	.	.	.	.	8.5	-1.6	19.1
Marketing	.	.	.	.	354	1036	859	709
% Change	.	.	.	.	.	192.7	-17.1	-17.5
Ind Arts	.	.	.	.	2051	717	852	941
% Change	.	.	.	.	.	-65.0	18.8	10.4
T & I	.	.	.	.	4770	7341	6875	6666
% Change	.	.	.	.	.	53.9	-6.3	-3.0
[b] Other	.	.	.	.	1322	2975	2217	1898
% Change	.	.	.	.	.	125.0	-25.5	-14.4
[c] Other	.	.	.	.	.	.	514	393
% Change	.	.	.	.	.	.	.	-23.5
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) A complete report of Anchorage data was not available in this year.

b) Coop, OJT and Related

c) Includes CIP codes 03, 09, 10, 12, 15, 17 and Applied Communications and Applied Math.

NOTE: All data are for grades 9-12. High school Enrollments are nonduplicated; Vocational Enrollments are duplicated.

ATTACHMENT 1
ENROLLMENT DATA SHEET

ARIZONA

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	163552	164766	170651	177886	180821	181176	181454	177963
% Change	.	0.7	3.6	4.2	1.6	0.2	0.2	-1.9
Vocational	.	130369	126650	129670	126664	125453	125660	120489
% Change	.	.	-2.9	2.4	-2.3	-1.0	0.2	-4.1
Agriculture	.	4099	4059	4388	4397	3706	4244	3980
% Change	.	.	-1.0	8.1	0.2	-15.7	14.5	-6.2
Business	.	54099	51685	53050	49879	48823	46027	44485
% Change	.	.	-4.5	2.6	-6.0	-2.1	-5.7	-3.4
Health	.	1403	1457	1365	1276	1242	1199	1212
% Change	.	.	3.8	-6.3	-6.5	-2.7	-3.5	1.1
Non-Occ Hm Ec	.	21979	21098	21078	20790	21480	21038	19294
% Change	.	.	-4.0	-0.1	-1.4	3.3	-2.1	-8.3
Occ Home Ec	.	2611	2078	2407	3245	3061	2816	2858
% Change	.	.	-20.4	15.8	34.8	-5.7	-8.0	1.5
Marketing	.	3373	3816	3911	4513	5799	6259	5794
% Change	.	.	13.1	2.5	15.4	28.5	7.9	-7.4
Ind Arts	.	34700	30899	33010	29466	27224	23729	20708
% Change	.	.	-11.0	6.8	-10.7	-7.6	-12.8	-12.7
T & I	.	5120	6262	5192	9618	10292	a 11810	a 11913
% Change	.	.	22.3	-17.1	85.2	7.0	14.7	0.9
b Other	.	1688	3486	3508	2466	3148	6668	7099
% Change	.	.	106.5	0.6	-29.7	27.7	111.8	6.5
c Other	.	1297	1807	1758	1011	675	1868	3144
% Change	.	.	39.3	-2.7	-42.5	-33.2	176.7	68.3
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Includes "New" Technology enrollments.

b) Non-mainstreamed (Special Needs) enrollments

c) Diversified Co-op, Exploration, and Vocational Guidance

NOTE: All enrollment data are duplicated. All data are for grades 9-12.

ATTACHMENT 1
ENROLLMENT DATA SHEET

ARKANSAS

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	[a] 1989-90
High School	131947	130953	131714	133993	134901	133772	131183	122798
% Change	.	-0.8	0.6	1.7	0.7	-0.8	-1.9	-6.4
Vocational	73587	85575	91449	99365	104283	104338	102699	101565
% Change	.	16.3	6.9	8.7	4.9	0.1	-1.6	-1.1
Agriculture	13047	17501	17730	17769	17211	16648	15339	15792
% Change	.	34.1	1.3	0.2	-3.1	-3.3	-7.9	3.0
Business	15065	20318	24097	31371	35524	39040	41285	39804
% Change	.	34.9	18.6	30.2	13.2	9.9	5.8	-3.6
Health	714	706	725	634	585	611	537	436
% Change	.	-1.1	2.7	-12.6	-7.7	4.4	-12.1	-18.8
Non-Occ Hm Ec	28632	32367	33523	35233	35943	33183	30191	30984
% Change	.	13.0	3.6	5.1	2.0	-7.7	-9.0	2.6
Occ Home Ec	1487	1652	1620	1587	2559	2489	2232	2171
% Change	.	11.1	-1.9	-2.0	61.2	-2.7	-10.3	-2.7
Marketing	2078	1990	1903	1820	2527	2581	2655	3276
% Change	.	-4.2	-4.4	-4.4	38.8	2.1	2.9	23.4
Ind Arts	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
T & I	11922	8159	7863	8034	8998	9419	8295	8186
% Change	.	-31.6	-3.6	2.2	12.0	4.7	-11.9	-1.3
[b] Other	.	.	.	.	122	82	106	115
% Change	.	.	.	.	.	-32.8	29.3	8.5
[c] Other	642	2882	3988	2917	814	285	140	34
% Change	.	348.9	38.4	-26.9	-72.1	-65.0	-50.9	-75.7
[d] Other	.	.	.	.	.	.	904	767
% Change	.	.	.	.	.	.	.	-15.2

a) This is beginning of the year enrollment; it should be higher when year-end figures are available

b) Technical Enrollment

c) Career Orientation

d) New program for special needs students (exploratory)

NOTE: All data are nonduplicated counts for grades 9-12.

ATTACHMENT 1
ENROLLMENT DATA SHEET

CALIFORNIA

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	1263668	1275493	1305148	1328849	1332305	1318394	1306077	.
% Change	.	.	.	.	0.3	-1.0	-0.9	.
a Vocational	992210	935936	953255	1266603	1349141	1273008	.	.
% Change	.	.	.	.	6.5	-5.6	.	.
Agriculture	57149	50449	48403	53503	56926	55104	.	.
% Change	.	.	.	.	6.4	-3.2	.	.
b Business	284501	296887	334022	441661	458330	446367	.	.
% Change	.	.	.	.	3.8	-2.6	.	.
c Health	.	19911	15202	19015	29232	28413	.	.
% Change	.	.	.	.	53.7	-2.8	.	.
Non-Occ Hm Ec	167527	144076	143873	252154	223209	207383	.	.
% Change	.	.	.	.	-11.5	-7.1	.	.
d Occ Home Ec	40320	35020	29009	.	30360	32871	.	.
% Change	.	.	.	.	.	8.3	.	.
Marketing	24659	16887	16336	20370	38780	42261	.	.
% Change	.	.	.	.	90.4	9.0	.	.
Ind Arts	303809	263870	241422	349554	328791	273622	.	.
% Change	.	.	.	.	-5.9	-16.8	.	.
e T & I	114245	108836	124988	130346	183513	186987	.	.
% Change	.	.	.	.	40.8	1.9	.	.
f Other	.	.	.	5737	5991	4272	.	.
% Change	.	.	.	.	4.4	-28.7	.	.
g Other	.	.	.	51277	50108	45946	.	.
% Change	.	.	.	.	-2.3	-8.3	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) "Other" Enrollments not included.

b) Office Education Enrollment only

c) Health Enrollment may have been combined with T&I for 1982-83.

d) Occupational Home Economics Enrollments for 1985-86 were combined with Non-occupational Home Economics Enrollments.

e) Includes T & I and Technical Education Enrollment for 1982-83 and 1984-85.

f) Technical Education

g) Work Experience Education (not collected prior to 1985-86).

NOTE: Major changes were made in data reporting system effective school year 1985-86 and again in 1986-87. High School Enrollments are nonduplicated; Vocational Enrollments are duplicated. All data are for grades 9-12 (vocational includes some Adult secondary). Consistent data available only for 1986-87 and beyond.

ATTACHMENT 1
ENROLLMENT DATA SHEET

CONNECTICUT

	1982-83	1983-84	1984-85	[a] 1985-86	[b] 1986-87	1987-88	1988-89	1989-90
High School	166675	161743	157057	153168	147890	138803	130933	.
% Change	.	-3.0	-2.9	-2.5	-3.4	-6.1	-5.7	.
Vocational	119246	119417	110797	.	136293	121268	115560	.
% Change	.	0.1	-7.2	.	.	-11.0	-4.7	.
Agriculture	1681	1617	1556	.	1688	1358	1291	.
% Change	.	-3.8	-3.8	.	.	-19.5	-4.9	.
Business	37735	39642	35700	.	39464	34179	30991	.
% Change	.	5.1	-9.9	.	.	-13.4	-9.3	.
Health	1300	1123	1021	.	1076	777	778	.
% Change	.	-13.6	-9.1	.	.	-27.8	0.1	.
Non-Occ Hm Ec	30228	26294	26416	.	30944	26588	25969	.
% Change	.	-13.0	0.5	.	.	-14.1	-2.3	.
Occ Home Ec	1995	2139	1875	.	2911	2144	2268	.
% Change	.	7.2	-12.3	.	.	-26.3	5.8	.
Marketing	3264	3121	3182	.	3863	3093	2902	.
% Change	.	-4.4	2.0	.	.	-19.9	-6.2	.
Ind Arts	25607	27683	23374	.	34043	30536	30404	.
% Change	.	8.1	-15.6	.	.	-10.3	-0.4	.
[c] T & I	11040	11532	11382	.	13859	9034	9201	.
% Change	.	4.5	-1.3	.	.	-34.8	1.8	.
[d] Other	3151	2922	2748	.	3214	2693	2629	.
% Change	.	-7.3	-6.0	.	.	-16.2	-2.4	.
[e] Other	3245	3344	3543	.	5231	11867	9127	.
% Change	.	3.1	6.0	.	.	126.9	-23.1	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) No Vocational data were collected in 1985-86.

b) Prior to 1986-87, Enrollment data were collected only for state-approved programs. Starting in 1986-87 Enrollment data were collected for all programs.

c) Includes T & I and Occupational Preparation programs (CIP areas 12, 15, 41, 43, 46-49).

d) Cooperative Work Experience/Diversified Occupations

e) Multi-occupational and career orientation

NOTE: High School Enrollments are nonduplicated; Vocational are duplicated. All data are for grades 9-12.

ATTACHMENT 1
ENROLLMENT DATA SHEET

COLORADO

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	162702	162554	166096	168557	169142	164865	157167	153098
% Change	.	-0.1	2.2	1.5	0.3	-2.5	-4.7	-2.6
Vocational	44916	42468	38592	41664	44297	44912	43272	39649
% Change	.	-5.5	-9.1	8.0	6.3	1.4	-3.7	-8.4
Agriculture	2666	2468	2311	2243	2350	2235	2104	2058
% Change	.	-7.4	-6.4	-2.9	4.8	-4.9	-5.9	-2.2
Business	15548	15306	12768	12481	13439	13906	12900	11584
% Change	.	-1.6	-16.6	-2.2	7.7	3.5	-7.2	-10.2
Health	550	507	475	494	541	503	473	418
% Change	.	-7.8	-6.3	4.0	9.5	-7.0	-6.0	-11.6
Non-Occ Hm Ec	7000	7241	6186	8629	8986	9187	9129	8609
% Change	.	3.4	-14.6	39.5	4.1	2.2	-0.6	-5.7
Occ Home Ec	1998	1887	1738	1857	2360	1927	1968	1571
% Change	.	-5.6	-7.9	6.8	27.1	-18.3	2.1	-20.2
Marketing	4227	3946	3959	4324	4750	5091	4701	4644
% Change	.	-6.6	0.3	9.2	9.9	7.2	-7.7	-1.2
Ind Arts	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
T & I	8555	7746	7250	7339	7356	7006	6770	5575
% Change	.	-9.5	-6.4	1.2	0.2	-4.8	-3.4	-17.7
a Other	3022	2533	2868	3348	3541	3854	4012	4293
% Change	.	-16.2	13.2	16.7	5.8	8.8	4.1	7.0
b Other	1350	834	1037	949	1064	1203	1215	951
% Change	.	-38.2	24.3	-8.5	12.1	13.1	1.0	-21.7
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Special Programs

b) Technical Education

NOTE: All data are nonduplicated counts for grades 9-12.

ATTACHMENT 1
ENROLLMENT DATA SHEET

DELAWARE

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	31515	30225	29806	29819	26524	26052	27792	24603
% Change	.	-4.1	-1.4	0.0	-11.1	-1.8	6.7	-11.5
a Vocational	40204	44401	41330	42895	43377	40842	41971	d 40513
% Change	.	10.4	-6.9	3.8	1.1	-5.8	2.8	-3.5
Agriculture	3532	3279	3129	3296	2903	2896	3061	2771
% Change	.	-7.2	-4.6	5.3	-11.9	-0.2	5.7	-9.5
Business	14854	16361	15645	16645	16360	14839	15363	14127
% Change	.	10.1	-4.4	6.4	-1.7	-9.3	3.5	-8.0
Health	5090	6305	6015	6364	6156	6185	4886	5490
% Change	.	23.9	-4.6	5.8	-3.3	0.5	-21.0	12.4
Non-Occ Hm Ec	10788	12327	11451	11455	12624	12285	14487	15352
% Change	.	14.3	-7.1	0.0	10.2	-2.7	17.9	6.0
Occ Home Ec	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
Marketing	1613	1757	1320	1520	1314	1296	1023	692
% Change	.	8.9	-24.9	15.2	-13.6	-1.4	-21.1	-32.4
Ind Arts	247	229	248	218	13739	14457	15697	15741
% Change	.	-7.3	8.3	-12.1	6202.3	5.2	8.6	0.3
T & I	4327	4372	3770	3615	4020	3341	3151	2081
% Change	.	1.0	-13.8	-4.1	11.2	-16.9	-5.7	-34.0
b Other	.	.	.	.	110562	55371	6852	6615
% Change	.	.	.	.	.	-49.9	-87.6	-3.5
c Other	.	.	.	.	.	.	.	156
% Change	.	.	.	.	.	.	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Vocational Enrollment Totals are the sum of duplicated service area Enrollments with the exception of Industrial Arts and "Other" Enrollment.

b) Special Education and Exploratory Programs

c) ?

d) Preliminary

NOTE: Vocational Enrollments are duplicated counts for grades 7-12. High School Enrollments are nonduplicated counts for grades 9-12.

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ATTACHMENT 1
ENROLLMENT DATA SHEET

D.C.

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	.	16616	16195	16409	16328	16672	17396	12395
% Change	.	.	-2.5	1.3	-0.5	2.1	4.3	-28.7
Vocational	.	3207	3750	3265	3572	4292	2657	2621
% Change	.	.	16.9	-12.9	9.4	20.2	-38.1	-1.4
Agriculture	.	.	75	65	24	28	43	.
% Change	.	.	.	-13.3	-63.1	16.7	53.6	.
a Business	.	.	9569	9695	9454	11304	9947	7327
% Change	.	.	.	1.3	-2.5	19.6	-12.0	-26.3
a Health	.	.	541	302	302	288	282	303
% Change	.	.	.	-44.2	0.0	-4.6	-2.1	7.4
a Non-Occ Hm Ec	.	.	7227	7323	8462	10894	9586	3464
% Change	.	.	.	1.3	15.6	28.7	-12.0	-63.9
Occ Home Ec	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
Marketing	.	.	2338	2370	2577	3659	3219	1256
% Change	.	.	.	1.4	8.7	42.0	-12.0	-61.0
Ind Arts	.	.	4531	4591	4566	3366	2962	2100
% Change	.	.	.	1.3	-0.5	-26.3	-12.0	-29.1
T & I	.	.	4729	4792	3500	3910	3449	3075
% Change	.	.	.	1.3	-27.0	11.7	-11.8	-10.8
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) High School, junior high and career center enrollments combined. Non-Occupational Home Economics data include Occupational Home Economics enrollments.

NOTE: High School and Vocational data are nonduplicated counts for grades 9-12. Vocational service area data are duplicated counts for grades 9-12.

ATTACHMENT 1
ENROLLMENT DATA SHEET

FLORIDA

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	701232	716795	728179	735869	742868	748711	744246	.
% Change	.	.	.	.	.	0.8	-0.6	.
a Vocational	477041	432766	548249	389957	751162	840115	851383	.
% Change	.	.	.	.	.	11.8	1.3	.
Agriculture	24057	7048	11183	25018	25855	24643	24545	.
% Change	.	.	.	.	.	-4.7	-0.4	.
Business	126156	51537	64386	161825	155349	180395	186925	.
% Change	.	.	.	.	.	16.1	3.6	.
b Health	6121	2707	2783	6717	7102	11722	13047	.
% Change	.	.	.	.	.	65.1	11.3	.
c Non-Occ Hm Ec	85706	75056	112421	154040	126299	160470	160821	.
% Change	.	.	.	.	.	27.1	0.2	.
Occ Home Ec	.	.	.	.	12790	12212	13791	.
% Change	.	.	.	.	.	-4.5	12.9	.
Marketing	21534	18701	24516	461	19256	19443	22474	.
% Change	.	.	.	.	.	1.0	15.6	.
d Ind Arts	92869	20508	104936	41896	81295	92212	93333	.
% Change	.	.	.	.	.	13.4	1.2	.
T & I	666	454	539	.	26340	27771	28017	.
% Change	.	.	.	.	.	5.4	0.9	.
e Other	57899	25022	23733	.	20716	26908	31286	.
% Change	.	.	.	.	.	29.9	16.3	.
f Other	62033	231733	203752	.	269709	277741	269820	.
% Change	.	.	.	.	.	3.0	-2.9	.
g Other	.	.	.	.	6451	6598	7424	.
% Change	.	.	.	.	.	2.3	12.5	.

a) Consistent data available only for 1986-87 and beyond.

b) Includes Public Service Enrollments.

c) Includes Occupational Home Economics Enrollments through 1985-86 only.

d) Includes T&I Enrollments through 1985-86 only.

e) Diversified Occupations

f) Exploratory

g) Exceptional and Special Needs

NOTE: High school enrollments are nonduplicated counts for grades 7-12. All Vocational Enrollments are duplicated head counts for grades 7-12.

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ATTACHMENT 1
ENROLLMENT DATA SHEET

GEORGIA

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	317446	315546	319257	325548	321743	319301	297273	298109
% Change	.	-0.6	1.2	2.0	-1.2	-0.8	-6.9	0.3
Vocational	378712	358502	363062	280293	274210	339000	329676	380440
% Change	.	-5.3	1.3	-22.8	-2.2	23.6	-2.8	15.4
Agriculture	40880	38483	39014	22710	24600	32440	35345	35490
% Change	.	-5.9	1.4	-41.8	8.3	31.9	9.0	0.4
Business	125422	121780	150154	125318	128215	139593	128371	140785
% Change	.	-2.9	23.3	-16.5	2.3	8.9	-8.0	9.7
Health	10820	10492	12036	10444	11622	11597	10950	10127
% Change	.	-3.0	14.7	-13.2	11.3	-0.2	-5.6	-7.5
Non-Occ Hm Ec	120142	114637	118919	67893	61926	96299	93509	106373
% Change	.	-4.6	3.7	-42.9	-8.8	55.5	-2.9	13.8
a Occ Home Ec	5237	.	.	5940	7377	7841	6759	6078
% Change	.	.	.	.	24.2	6.3	-13.8	-10.1
Marketing	9264	8723	11010	8122	8795	8545	8548	8142
% Change	.	-5.8	26.2	-26.2	8.3	-2.8	0.0	-4.7
Ind Arts	76548	57508	70263	35871	36583	64625	63916	59806
% Change	.	-24.9	22.2	-48.9	2.0	76.7	-1.1	-6.4
T & I	58244	55536	68814	58606	61076	60235	58422	55946
% Change	.	-4.6	23.9	-14.8	4.2	-1.4	-3.0	-4.2
Other	4551	4094	5232	4847	3822	3303	1949	1812
% Change	.	-10.0	27.8	-7.4	-21.1	-13.6	-41.0	-7.0
b Other	11524	10447	13334	21035	18022	18188	12197	12615
% Change	.	-9.3	27.6	57.8	-14.3	0.9	-32.9	3.4
c Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Occupational Enrollments are included in Non-occupational Home Economics data for 1983-84 and 1984-85.

b) Handicapped (RVI program)

c) Disadvantaged (CVAE Program)

NOTE: Total High School Enrollments are nonduplicated for grades 9-12. Vocational totals are nonduplicated for ALL grades (not just 9-12) for all years except 1985-86 and 1986-87, which includes only grades 9-12. Figures for all program service areas are nonduplicated within each area, but duplicated between areas--thus, if program area figures are added together, the resultant figure would be larger than the total figure reported.

ATTACHMENT 1
ENROLLMENT DATA SHEET

HAWAII

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	[a]46421	46260	46919	46194	45482	45302	44816	.
% Change	.	-0.3	1.4	-1.5	-1.5	-0.4	-1.1	.
Vocational	31919	34999	35326	36447	36237	33428	33294	.
% Change	.	9.6	0.9	3.2	-0.6	-7.8	-0.4	.
Agriculture	2493	2425	2383	2565	2611	2393	2465	.
% Change	.	-2.7	-1.7	7.6	1.8	-8.3	3.0	.
[b] Business	10582	14371	14770	14594	13297	12494	11531	.
% Change	.	35.8	2.8	-1.2	-8.9	-6.0	-7.7	.
Health	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
Non-Occ Hm Ec	9625	8754	9130	9887	10203	10310	10055	.
% Change	.	-9.0	4.3	8.3	3.2	1.0	-2.5	.
Occ Home Ec	2405	2827	2418	2401	2607	2107	2259	.
% Change	.	17.5	-14.5	-0.7	8.6	-19.2	7.2	.
Marketing	1606	1679	1606	1652	1861	1641	1815	.
% Change	.	4.5	-4.3	2.9	12.7	-11.8	10.6	.
[c] Ind Arts	581	522	625	612	620	621	629	.
% Change	.	-10.2	19.7	-2.1	1.3	0.2	1.3	.
T & I	4627	4421	4394	4736	5038	3862	4540	.
% Change	.	-4.5	-0.6	7.8	6.4	-23.3	17.6	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Estimated by VEPS staff

b) Office Education Enrollment only

c) Does not include 8th graders although Industrial Arts is a required program for them.

NOTE: High School Enrollments are nonduplicated; Vocational Enrollments are duplicated. All data are for grades 9-12.

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ATTACHMENT 1
ENROLLMENT DATA SHEET

IDAHO

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	57527	58115	59231	59401	59075	58305	58359	58823
% Change	.	1.0	1.9	0.3	-0.5	-1.3	0.1	0.8
a Vocational	32514	31817	33720	32025	34070	33321	34321	36323
% Change	.	-2.1	6.0	-5.0	6.4	-2.2	3.0	5.8
Agriculture	5297	4739	4364	4114	4211	4663	4880	5296
% Change	.	-10.5	-7.9	-5.7	2.4	10.7	4.7	8.5
Business	8131	8896	9350	9463	10015	10557	9331	10737
% Change	.	9.4	5.1	1.2	5.8	5.4	-11.6	15.1
Health	126	193	204	165	149	145	213	186
% Change	.	53.2	5.7	-19.1	-9.7	-2.7	46.9	-12.7
Non-Occ Hm Ec	13704	13286	13772	12682	13731	12106	13131	13465
% Change	.	-3.1	3.7	-7.9	8.3	-11.8	8.5	2.5
Occ Home Ec	99	100	156	187	247	275	255	351
% Change	.	1.0	56.0	19.9	32.1	11.3	-7.3	37.6
Marketing	816	849	926	1050	1126	1038	878	1359
% Change	.	4.0	9.1	13.4	7.2	-7.8	-15.4	54.8
b Ind Arts	607	654	1238	580	587	361	1180	933
% Change	.	7.7	89.3	-53.2	1.2	-38.5	226.9	-20.9
T & I	3448	2856	3460	3582	3802	3910	4260	3894
% Change	.	-17.2	21.4	3.3	6.1	2.8	9.0	-8.6
c Other	286	244	242	202	202	266	193	102
% Change	.	-14.7	-0.8	-16.5	0.0	31.7	-27.4	-47.2
d Other	.	.	.	.	438	430	608	653
% Change	.	.	.	.	.	-1.8	41.4	7.4
e Other	.	.	.	.	.	.	.	315
% Change	.	.	.	.	.	.	.	.

a) Vocational totals do <u>not</u> include Special Needs and Teen Parenting enrollments.

b) Enrollments for Industrial Arts are for programs that receive grants from the state and for classes that meet the guidelines for industrial <u>technology</u>. Since the grants only go to a school once every few years, enrollments jump around according to size of schools getting the grants.

c) Multi-Occupations

d) Special Needs--these enrollments are mainstreamed, hence these separate figures are not <u>added</u> to the vocational total.

e) Teen Parenting--these enrollments are not included in vocational total.

NOTE: All data are nonduplicated head counts for grades 9-12.

ATTACHMENT 1
ENROLLMENT DATA SHEET

ILLINOIS

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	588912	577520	575142	574782	570052	555440	532098	.
% Change	.	-1.9	-0.4	-0.1	-0.8	-2.6	-4.2	.
Vocational	463339	449232	432564	427150	403051	385477	.	.
% Change	.	-3.0	-3.7	-1.3	-5.6	-4.4	.	.
Agriculture	19682	17619	15841	15385	14809	13319	.	.
% Change	.	-10.5	-10.1	-2.9	-3.7	-10.1	.	.
Business	157847	166277	167654	167617	152679	145528	.	.
% Change	.	5.3	0.8	-0.0	-8.9	-4.7	.	.
Health	5613	4947	4470	4570	3946	3510	.	.
% Change	.	-11.9	-9.6	2.2	-13.7	-11.0	.	.
a Non-Occ Hm Ec	45309	43239	43248	43785	41635	39585	.	.
% Change	.	-4.6	0.0	1.2	-4.9	-4.9	.	.
Occ Home Ec	45700	43567	43141	39378	42486	41618	.	.
% Change	.	-4.7	-1.0	-8.7	7.9	-2.0	.	.
Marketing	29961	28742	26644	29004	27280	28376	.	.
% Change	.	-4.1	-7.3	8.9	-5.9	4.0	.	.
Ind Arts	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
T & I	146914	136076	123819	119262	112485	106929	.	.
% Change	.	-7.4	-9.0	-3.7	-5.7	-4.9	.	.
b Other	12313	8765	7747	8149	7731	6612	.	.
% Change	.	-28.8	-11.6	5.2	-5.1	-14.5	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Students reported in Non-occupational Home Economics may also be reported in another program if concurrently enrolled.

b) Special Programs

NOTE: All data are for grades 9-12.

ATTACHMENT 1
ENROLLMENT DATA SHEET

INDIANA

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	304819	297758	287118	298386	297911	296536	284698	.
% Change	.	-2.3	-3.6	3.9	-0.2	-0.5	-4.0	.
a Vocational	100579	91704	92214	94650	97979	95668	89841	.
% Change	.	-8.8	0.6	2.6	3.5	-2.4	-6.1	.
Agriculture	16850	15286	13476	13510	15010	13341	.	.
% Change	.	-9.3	-11.8	0.3	11.1	-11.1	.	.
Business	6033	6110	6812	5956	6295	6302	.	.
% Change	.	1.3	11.5	-12.6	5.7	0.1	.	.
Health	2365	2234	2096	2126	1948	1646	.	.
% Change	.	-5.5	-6.2	1.4	-8.4	-15.5	.	.
Non-Occ Hm Ec	48083	41666	43252	47896	48178	46409	44611	.
% Change	.	-13.3	3.8	10.7	0.6	-3.7	-3.9	.
Occ Home Ec	2288	3767	4160	4219	4573	4692	2565	.
% Change	.	64.6	10.4	1.4	8.4	2.6	-45.3	.
Marketing	6317	5668	6084	6648	7091	7963	.	.
% Change	.	-10.3	7.3	9.3	6.7	12.3	.	.
Ind Arts	88528	83054	84043	83316	.	73201	.	.
% Change	.	-6.2	1.2	-0.9	.	.	.	.
T & I	18643	16973	16334	14295	14884	15315	.	.
% Change	.	-9.0	-3.8	-12.5	4.1	2.9	.	.
b Other	2423	962	255	189	66	218	.	.
% Change	.	-60.3	-73.5	-25.9	-65.1	230.3	.	.
c Other	.	.	.	.	182	77	.	.
% Change	.	.	.	.	.	-57.7	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Vocational totals do not include Industrial Arts or "Other" Enrollments.

b) Not Elsewhere Classified.

c) ?

NOTE: All Vocational data are nonduplicated head counts.

ATTACHMENT 1
ENROLLMENT DATA SHEET

IOWA

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	159899	155675	153832	152134	148292	142417	135913	.
% Change	.	-2.6	-1.2	-1.1	-2.5	-4.0	-4.6	.
a Vocational	59587	60070	57534	58495	63990	62123	60400	.
% Change	.	0.8	-4.2	1.7	9.4	-2.9	-2.8	.
Agriculture	13628	12597	11782	10836	11131	11046	11796	.
% Change	.	-7.6	-6.5	-8.0	2.7	-0.8	6.8	.
b Business	1644	5700	5037	6471	7724	9269	9442	.
% Change	.	246.7	-11.6	28.5	19.4	20.0	1.9	.
Health	525	429	482	313	180	333	388	.
% Change	.	-18.3	12.4	-35.1	-42.5	85.0	16.5	.
Non-Occ Hm Ec	37549	35574	34459	35094	40078	36414	33605	.
% Change	.	-5.3	-3.1	1.8	14.2	-9.1	-7.7	.
Occ Home Ec	769	984	1129	900	955	921	1005	.
% Change	.	28.0	14.7	-20.3	6.1	-3.6	9.1	.
Marketing	1666	1657	1705	2161	1797	1972	2085	.
% Change	.	-0.5	2.9	26.7	-16.8	9.7	5.7	.
Ind Arts	.	.	.	7489	14772	18903	18782	.
% Change	.	.	.	.	97.2	28.0	-0.6	.
T & I	3806	3129	2940	2720	2125	2168	2079	.
% Change	.	-17.8	-6.0	-7.5	-21.9	2.0	-4.1	.
c Other	2345	4536	4067	6590	3910	10487	1432	.
% Change	.	93.4	-10.3	62.0	-40.7	168.2	-86.3	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Vocational total does not include Industrial Arts or Not Elsewhere Classified enrollments.

b) Increase in Business Enrollments reflects greatly expanded enrollment at the 9th and 10th grade levels.

c) Not Elsewhere Classified.

NOTE: Vocational Enrollments are duplicated counts for grades 7-12. High School Enrollments are nonduplicated counts for grades 9-12.

ATTACHMENT 1
ENROLLMENT DATA SHEET

KANSAS

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	120916	120298	120676	121978	121667	119837	116960	115385
% Change	.	-0.5	0.3	1.1	-0.3	-1.5	-2.4	-1.3
a Vocational	105589	104500	101200	109349	109310	116097	114440	112380
% Change	.	-1.0	-3.2	8.1	-0.0	6.2	-1.4	-1.8
Agriculture	7929	7552	7201	6800	5656	5760	6551	5990
% Change	.	-4.8	-4.6	-5.6	-16.8	1.8	13.7	-8.6
Business	24550	22960	21015	22731	27366	29390	22774	24611
% Change	.	-6.5	-8.5	8.2	20.4	7.4	-22.5	8.1
b Health	3050	3100	3150	3165	3082	2912	3610	631
% Change	.	1.6	1.6	0.5	-2.6	-5.5	24.0	-82.5
c Non-Occ Hm Ec	30764	29391	27905	23503	24795	27943	31732	28649
% Change	.	-4.5	-5.1	-15.8	5.5	12.7	13.6	-9.7
Occ Home Ec	.	.	.	.	.	.	.	3826
% Change	.	.	.	.	.	.	.	.
Marketing	2536	2140	2537	3107	3196	3586	3526	3960
% Change	.	-15.6	18.6	22.5	2.9	12.2	-1.7	12.3
Ind Arts	.	.	.	12080	16646	17048	16648	15830
% Change	.	.	.	.	37.8	2.4	-2.3	-4.9
d T & I	30757	31356	29391	24645	28566	29435	29568	28852
% Change	.	1.9	-6.3	-16.1	15.9	3.0	0.5	-2.4
e Other	3	1	1	.	3	23	31	31
% Change	.	-66.7	0.0	.	.	666.7	34.8	0.0
f Other	6000	8000	10000	13318	17373	16941	16764	17189
% Change	.	33.3	25.0	33.2	30.4	-2.5	-1.0	2.5
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Vocational Enrollment does not include Computer Applications.

b) First year believed to be accurate is FY90 (General Health classes removed).

c) Includes Occupational Home Economics (15%-20% of enrollments estimated to be in occupational programs).

d) Includes Industrial Arts Enrollment estimated at 15,000 to 20,000 head count per year for FY 83-85.

e) Technical/Microcomputer Applications.

f) Computer Applications; figures for 1982-83 through 1984-85 are estimated.

NOTE: High school Enrollment data are nonduplicated counts for grades 9-12; vocational data are duplicated for grades 9-12.

ATTACHMENT 1
ENROLLMENT DATA SHEET

KENTUCKY

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	a 1988-89	1989-90
High School	190333	192483	193310	195065	195877	193875	186477	.
% Change	.	1.1	0.4	0.9	0.4	-1.0	-3.8	.
b Vocational	51452	45584	47387	44879	44110	43787	43500	.
% Change	.	-11.4	4.0	-5.3	-1.7	-0.7	-0.7	.
Agriculture	16128	15882	14579	14038	14172	14414	14500	.
% Change	.	-1.5	-8.2	-3.7	1.0	1.7	0.6	.
Business	31492	39660	45380	54749	58572	63071	63100	.
% Change	.	25.9	14.4	20.6	7.0	7.7	0.0	.
Health	2359	2368	2216	2243	2371	2456	2450	.
% Change	.	0.4	-6.4	1.2	5.7	3.6	-0.2	.
Non-Occ Hm Ec	49408	45334	44062	43731	45319	53471	55000	.
% Change	.	-8.2	-2.8	-0.8	3.6	18.0	2.9	.
Occ Home Ec	1836	1536	1505	1435	1429	1592	1550	.
% Change	.	-16.3	-2.0	-4.7	-0.4	11.4	-2.6	.
Marketing	7556	6722	6687	6642	6642	6603	6600	.
% Change	.	-11.0	-0.5	-0.7	0.0	-0.6	-0.0	.
Ind Arts	19932	19911	18510	20977	20826	26533	26700	.
% Change	.	-0.1	-7.0	13.3	-0.7	27.4	0.6	.
T & I	18085	16734	16080	15669	15752	16299	16300	.
% Change	.	-7.5	-3.9	-2.6	0.5	3.5	0.0	.
c Other	7657	5801	5741	5735	5973	5724	5700	.
% Change	.	-24.2	-1.0	-0.1	4.1	-4.2	-0.4	.
d Other	234	208	265	260	207	348	325	.
% Change	.	-11.1	27.4	-1.9	-20.4	68.1	-6.6	.
e Other	356	980	628	955	1271	1350	1400	.
% Change	.	175.3	-35.9	52.1	33.1	6.2	3.7	.

a) Figures for 1988-89 Vocational Enrollments are projected.

b) Includes only 11-12 graders enrolled in occupational preparation programs. Data are duplicated counts.

c) Special Needs

d) Public Service Occupations

e) Academic/Vocational

NOTE: High school Enrollments are nonduplicated counts for grades 9-12.

ATTACHMENT 1
ENROLLMENT DATA SHEET

LOUISIANA

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	222198	222959	222021	220796	216882	209848	207639	.
% Change	.	0.3	-0.4	-0.6	-1.8	-3.2	-1.1	.
Vocational	138600	149017	155753	148885	131169	136815	135572	120865
% Change	.	7.5	4.5	-4.4	-11.9	4.3	-0.9	-10.8
Agriculture	15516	16344	17117	15669	13827	.	14171	10876
% Change	.	5.3	4.7	-8.5	-11.8	.	.	-23.3
Business	55517	60807	65982	64211	57327	.	58639	52108
% Change	.	9.5	8.5	-2.7	-10.7	.	.	-11.1
Health	1031	832	1027	1223	1028	.	3186	1088
% Change	.	-19.3	23.4	19.1	-15.9	.	.	-65.9
Non-Occ Hm Ec	14614	16158	27690	30584	29932	.	31240	27427
% Change	.	10.6	71.4	10.5	-2.1	.	.	-12.2
Occ Home Ec	17458	18849	8019	4481	1989	.	2480	956
% Change	.	8.0	-57.5	-44.1	-55.6	.	.	-61.5
Marketing	4516	4178	3727	3540	2173	.	3186	3855
% Change	.	-7.5	-10.8	-5.0	-38.6	.	.	21.0
Ind Arts	17739	19778	22893	22345	20234	.	17324	15307
% Change	.	11.5	15.7	-2.4	-9.4	.	.	-11.6
T & I	7843	8432	7853	6036	4633	.	6297	5191
% Change	.	7.5	-6.9	-23.1	-23.2	.	.	-17.6
[a] Other	529	356	141	79	16	.	986	3075
% Change	.	-32.7	-60.4	-44.0	-79.7	.	.	211.9
[b] Other	3837	3283	1304	717	10	.	.	982
% Change	.	-14.4	-60.3	-45.0	-98.6	.	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Technical

b) Not Elsewhere Classified

NOTE: All data are nonduplicated counts for grades 9-12.

ATTACHMENT 1
ENROLLMENT DATA SHEET

MAINE

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	67464	64864	63759	63329	63601	61810	59446	.
% Change	.	-3.9	-1.7	-0.7	0.4	-2.8	-3.8	.
a Vocational	9015	8627	7828	7595	7515	7439	7286	.
% Change	.	-4.3	-9.3	-3.0	-1.1	-1.0	-2.1	.
Agriculture	441	376	358	343	329	333	278	.
% Change	.	-14.7	-4.8	-4.2	-4.1	1.2	-16.5	.
Business	757	749	665	643	648	628	626	.
% Change	.	-1.1	-11.2	-3.3	0.8	-3.1	-0.3	.
Health	616	553	473	417	376	344	374	.
% Change	.	-10.2	-14.5	-11.8	-9.8	-8.5	8.7	.
Non-Occ Hm Ec	7843	7017	7075	7019	7333	7603	7193	.
% Change	.	-10.5	0.8	-0.8	4.5	3.7	-5.4	.
Occ Home Ec	580	579	505	560	565	586	607	.
% Change	.	-0.2	-12.8	10.9	0.9	3.7	3.6	.
Marketing	416	385	368	342	314	318	297	.
% Change	.	-7.5	-4.4	-7.1	-8.2	1.3	-6.6	.
Ind Arts	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
T & I	4415	4196	3753	3751	3619	3578	3452	.
% Change	.	-5.0	-10.6	-0.1	-3.5	-1.1	-3.5	.
b Other	260	277	233	243	230	208	211	.
% Change	.	6.5	-15.9	4.3	-5.3	-9.6	1.4	.
c Other	1530	1498	1473	1296	1413	1418	1401	.
% Change	.	-2.1	-1.7	-12.0	9.0	0.4	-1.2	.
d Other	.	14	.	.	21	26	40	.
% Change	.	.	.	.	.	23.8	53.8	.

a) Vocational Enrollment does not include Non-Occupational Home Economics.

b) Diversified Occupations

c) Cooperative Education

d) Basic Skills

NOTE: Vocational Enrollments are for 11th & 12th grades only. High school enrollments are for grades 9-12.

ATTACHMENT 1
ENROLLMENT DATA SHEET

MARYLAND

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	229291	223533	220255	218219	212593	203933	193598	185535
% Change	.	-2.5	-1.5	-0.9	-2.6	-4.1	-5.1	-4.2
a Vocational	167047	160570	154928	154239	144048	140279	137684	131759
% Change	.	-3.9	-3.5	-0.4	-6.6	-2.6	-1.8	-4.3
Agriculture	3447	3231	2823	2885	2584	2405	2246	2008
% Change	.	-6.3	-12.6	2.2	-10.4	-6.9	-6.6	-10.6
Business	48444	45503	47031	44751	43015	43149	41852	39435
% Change	.	-6.1	3.4	-4.8	-3.9	0.3	-3.0	-5.8
Health	1684	1712	1554	1548	1304	1287	1182	977
% Change	.	1.7	-9.2	-0.4	-15.8	-1.3	-8.2	-17.3
b Non-Occ Hm Ec	81372	81058	76693	78967	71542	67936	68296	66819
% Change	.	-0.4	-5.4	3.0	-9.4	-5.0	0.5	-2.2
c Occ Home Ec	1197	1662	2725	2664	2757	2809	2735	2610
% Change	.	38.8	64.0	-2.2	3.5	1.9	-2.6	-4.6
Marketing	2323	2210	2256	2224	2095	2017	1837	1779
% Change	.	-4.9	2.1	-1.4	-5.8	-3.7	-8.9	-3.2
b Ind Arts	95071	86003	89691	65948	69439	68514	62906	56771
% Change	.	-9.5	4.3	-26.5	5.3	-1.3	-8.2	-9.8
T & I	20423	17888	14926	14724	14097	13767	13228	12187
% Change	.	-12.4	-16.6	-1.4	-4.3	-2.3	-3.9	-7.9
d Other	7875	7115	6781	6337	6508	6752	6244	5882
% Change	.	-9.7	-4.7	-6.5	2.7	3.7	-7.5	-5.8
e Other	282	191	139	139	146	157	64	62
% Change	.	-32.3	-27.2	0.0	5.0	7.5	-59.2	-3.1
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Does not include Industrial Arts Enrollments

b) Nonduplicated data for grades 6-12; reporting procedures for Industrial Arts changed in 1985-86 to include only first session enrollments.

c) "Food Production/Management/Services" programs moved for T&I to Occupational Home Ec in 1983-84/1984-85.

d) General Cooperative

e) Technical

NOTE: All data (except that for Non-Occupational Home Economics and Industrial Arts) were for grades 9-12, all data are nonduplicated counts.

ATTACHMENT 1
ENROLLMENT DATA SHEET

MASSACHUSETTS

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89 [a]	1989-90
High School	311994	300559	295322	285274	274536	260278	245658	235350
% Change	.	-3.7	-1.7	-3.4	-3.8	-5.2	-5.6	-4.2
[b] Vocational	147376	145089	123125	133050	122507	107956	70427	66083
% Change	.	-1.6	-15.1	8.1	-7.9	-11.9	-34.8	-6.2
Agriculture	1788	1460	1257	1415	1451	1416	1408	974
% Change	.	-18.3	-13.9	12.6	2.5	-2.4	-0.6	-30.8
Business	92293	96651	78441	85134	75084	56664	25781	22062
% Change	.	4.7	-18.8	8.5	-11.8	-24.5	-54.5	-14.4
Health	2384	1953	1918	2124	2171	2093	1686	1609
% Change	.	-18.1	-1.8	10.7	2.2	-3.6	-19.4	-4.6
Non-Occ Hm Ec	36203	37570	31798	34461	32915	22045	25473	[f] .
% Change	.	3.8	-15.4	8.4	-4.5	-33.0	15.6	.
Occ Home Ec	2774	2157	1857	2988	2219	[e] 6877	2512	2600
% Change	.	-22.2	-13.9	60.9	-25.7	209.9	-63.5	3.5
Marketing	4838	4573	4086	4588	4926	4023	3386	2890
% Change	.	-5.5	-10.6	12.3	7.4	-18.3	-15.8	-14.6
Ind Arts	58300	55012	42682	45170	37983	32357	31214	[g] .
% Change	.	-5.6	-22.4	5.8	-15.9	-14.8	-3.5	.
T & I	40270	35552	33231	33905	34115	32930	28845	31508
% Change	.	-11.7	-6.5	2.0	0.6	-3.5	-12.4	9.2
[c] Other	3029	2743	2335	2896	2541	3953	6809	4440
% Change	.	-9.4	-14.9	24.0	-12.3	55.6	72.2	-34.8
[d] Other	806	1025	724	3423	1289	1510	.	571
% Change	.	27.2	-29.4	372.8	-62.3	17.1	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Beginning in 1988-89, reporting process was changed to include only those programs funded through Perkins. In addition, only those programs meeting certain audit standards were counted--hence, the apparent large decline in VE total.

b) Vocational total does not include non-Occupational Home Ec, Industrial Arts or Not Elsewhere Classified enrollments.

c) Technology Education

d) Not Elsewhere Classified (includes Exploratory)

e) There was a misunderstanding among several districts about how to report Occupational Home Ec enrollments, so this figure is inconsistent with that available for other years.

f) Non-Occ. Home Economics is no longer compiled in our annual report.

ATTACHMENT 1
ENROLLMENT DATA SHEET

MICHIGAN

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	518100	505632	501634	499259	489669	475958	451696	430038
% Change	.	-2.4	-0.8	-0.5	-1.9	-2.8	-5.1	-4.8
a Vocational	111323	108639	104037	103052	99928	93518	89653	84450
% Change	.	-2.4	-4.2	-0.9	-3.0	-6.4	-4.1	-5.8
b Agriculture	10351	9282	9018	8423	8323	8059	7229	6686
% Change	.	-10.3	-2.8	-6.6	-1.2	-3.2	-10.3	-7.5
Business	21540	21376	21373	20467	19010	16757	16041	15400
% Change	.	-0.8	-0.0	-4.2	-7.1	-11.9	-4.3	-4.0
Health	8205	8616	7620	7476	6394	5761	5350	5181
% Change	.	5.0	-11.6	-1.9	-14.5	-9.9	-7.1	-3.2
c Non-Occ Hm Ec	72676	64329	66018	70829	67737	65284	65216	61678
% Change	.	-11.5	2.6	7.3	-4.4	-3.6	-0.1	-5.4
Occ Home Ec	11018	10523	10242	9773	9187	8825	9060	7705
% Change	.	-4.5	-2.7	-4.6	-6.0	-3.9	2.7	-15.0
Marketing	16503	16497	15650	17458	19331	17081	16819	15578
% Change	.	-0.0	-5.1	11.6	10.7	-11.6	-1.5	-7.4
Ind Arts	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
d T & I	43706	42345	40134	39455	37683	37035	35154	33700
% Change	.	-3.1	-5.2	-1.7	-4.5	-1.7	-5.1	-4.1
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Does not include Non-Occupational Home Economics.

b) Includes CIP Codes 01 and 03.

c) May include counts of students who were also enrolled in wage earning programs.

d) Includes CIP codes 09, 12, 43, 46-49.

NOTE: All data (except that for Non-Occupational Home Economics) are nonduplicated counts; all data are for grades 9-12.

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ATTACHMENT 1
ENROLLMENT DATA SHEET

MINNESOTA

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	240742	238658	237590	236622	232004	224902	215671	.
% Change	.	-0.9	-0.4	-0.4	-2.0	-3.1	-4.1	.
a Vocational	112469	111214	101300	102307	102438	96478	.	.
% Change	.	-1.1	-8.9	1.0	0.1	-5.8	.	.
Agriculture	14893	14662	13160	13143	13057	10406	.	.
% Change	.	-1.6	-10.2	-0.1	-0.7	-20.3	.	.
Business	21249	20923	19183	21310	25294	24315	.	.
% Change	.	-1.5	-8.3	11.1	18.7	-3.9	.	.
Health	1698	1693	1611	1274	1015	868	.	.
% Change	.	-0.3	-4.8	-20.9	-20.3	-14.5	.	.
Non-Occ Hm Ec	41649	40870	38290	37521	33600	33022	.	.
% Change	.	-1.9.	-6.3	-2.0	-10.5	-1.7	.	.
Occ Home Ec	.	.	.	.	3008	2195	.	.
% Change	.	.	.	.	.	-27.0	.	.
Marketing	5624	5578	5145	5410	5797	5843	.	.
% Change	.	-0.8	-7.8	5.2	7.2	0.8	.	.
Ind Arts	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
T & I	21748	21352	18706	18861	17166	15932	.	.
% Change	.	-1.8	-12.4	0.8	-9.0	-7.2	.	.
Other	.	.	.	.	3501	3897	.	.
% Change	.	.	.	.	.	11.3	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Total Vocational Enrollment does not include Non-occupational Home Economics.

ATTACHMENT 1
ENROLLMENT DATA SHEET

MISSISSIPPI

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	226141	224743	221559	218778	217335	215685	210579	209567
% Change	.	-0.6	-1.4	-1.3	-0.7	-0.8	-2.4	-0.5
Vocational	102483	103950	105471	108311	108612	97353	94060	92194
% Change	.	1.4	1.5	2.7	0.3	-10.4	-3.4	-2.0
Agriculture	14595	15120	15689	15227	14770	12602	11687	11586
% Change	.	3.6	3.8	-2.9	-3.0	-14.7	-7.3	-0.9
Business	2972	3141	3390	3585	3376	3550	3840	3723
% Change	.	5.7	7.9	5.8	-5.8	5.2	8.2	-3.0
Health	214	302	325	292	221	251	458	624
% Change	.	41.1	7.6	-10.2	-24.3	13.6	82.5	36.2
Non-Occ Hm Ec	40260	41401	41852	44424	44197	36286	33654	33412
% Change	.	2,8	1.1	6.1	-0.5	-17.9	-7.3	-0.7
Occ Home Ec	2051	2312	2519	2398	1825	2862	3264	3798
% Change	.	12.7	9.0	-4.8	-23.9	56.8	14.0	16.4
Marketing	5234	5231	5195	5033	6524	5680	5655	5503
% Change	.	-0.1	-0.7	-3.1	29.6	-12.9	-0.4	-2.7
Ind Arts	23700	22886	23011	23530	22632	21199	21118	19154
% Change	.	-3.4	0.5	2.3	-3.8	-6.3	-0.4	-9.3
T & I	11959	11892	11636	11774	12869	12943	12643	12647
% Change	.	-0.6	-2.2	1.2	9.3	0.6	-2.3	0.0
a Other	1492	1624	1737	1851	1959	1383	776	537
% Change	.	8.8	7.0	6.6	5.8	-29.4	-43.9	-30.8
b Other	6	41	117	197	239	597	943	1141
% Change	.	583.3	185.4	68.4	21.3	149.8	58.0	21.0
c Other	.	.	.	.	.	.	22	69
% Change	.	.	.	.	.	.	.	213.6

a) Occupational Preparation for handicapped

b) Diversified Tech

c) Single Parent

NOTE: Data represent nonduplicated enrollments for grade levels 7-12.

ATTACHMENT 1
ENROLLMENT DATA SHEET

MISSOURI

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	255784	249298	248731	250910	251258	245086	238591	231550
% Change	.	-2.5	-0.2	0.9	0.1	-2.5	-2.7	-3.0
a Vocational	127951	121771	115236	115478	118732	116929	119397	110317
% Change	.	-4.8	-5.4	0.2	2.8	-1.5	2.1	-7.6
Agriculture	14764	14505	13206	12988	13244	13017	13363	13577
% Change	.	-1.8	-9.0	-1.7	2.0	-1.7	2.7	1.6
Business	11646	11211	10703	9461	9124	9280	9895	9406
% Change	.	-3.7	-4.5	-11.6	-3.6	1.7	6.6	-4.9
Health	1700	1606	1429	1323	1296	1156	1200	1241
% Change	.	-5.5	-11.0	-7.4	-2.0	-10.8	3.8	3.4
Non-Occ Hm Ec	69512	66926	63279	66282	68883	67681	67820	60459
% Change	.	-3.7	-5.4	4.7	3.9	-1.7	0.2	-10.9
Occ Home Ec	1461	1493	1367	1240	1228	1158	1308	1211
% Change	.	2.2	-8.4	-9.3	-1.0	-5.7	13.0	-7.4
Marketing	9317	9091	9618	9322	10226	10747	11140	10954
% Change	.	-2.4	5.8	-3.1	9.7	5.1	3.7	-1.7
Ind Arts	76797	69766	65536	62181	101545	99082	97420	95376
% Change	.	-9.2	-6.1	-5.1	63.3	-2.4	-1.7	-2.1
T & I	19551	16939	15634	14862	14731	13890	13695	12604
% Change	.	-13.4	-7.7	-4.9	-0.9	-5.7	-1.4	-8.0
b Other	2593	3561	3380	762	915	823	976	865
% Change	.	37.3	-5.1	-77.5	20.1	-10.1	18.6	-11.4
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Vocational Enrollment does not include Industrial Arts & Special Needs.

b) Special Needs; due to duplication in prior counting procedures, only Vocational Preparation Enrollment was collected for Special Needs Programs in 1985-86 and beyond.

NOTE: All Enrollment data (except Industrial Arts and Special Needs) are nonduplicated counts for grades 9-12.

ATTACHMENT 1
ENROLLMENT DATA SHEET

MONTANA

	1982-83	1983-84	1984-85	1985-86	[a]1986-87	[d]1987-88	1988-89	1989-90
High School	45089	45378	45616	45951	45755	44177	42747	41421
% Change	.	0.6	0.5	0.7	-0.4	-3.4	-3.2	-3.1
[b] Vocational	21440	21535	21395	20999	32074	22120	28444	[e] 37324
% Change	.	0.4	-0.7	-1.9	52.7	-31.0	28.6	31.2
Agriculture	3394	3236	3119	3052	3443	2398	2817	3419
% Change	.	-4.7	-3.6	-2.1	12.8	-30.4	17.5	21.4
Business	5282	5904	5583	6135	13871	8791	12456	15051
% Change	.	11.8	-5.4	9.9	126.1	-36.6	41.7	20.8
Health	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
Non-Occ Hm Ec	8068	7835	8228	7508	7553	4160	6340	11493
% Change	.	-2.9	5.0	-8.8	0.6	-44.9	52.4	81.3
Occ Home Ec	.	.	.	.	980	1507	980	980
% Change	.	.	.	.	.	53.8	-35.0	0.0
Marketing	1007	1052	1057	1027	1553	860	1575	1308
% Change	.	4.5	0.5	-2.8	51.2	-44.6	83.1	-17.0
[c] Ind Arts	.	.	.	3605	6409	5419	5726	9933
% Change	.	.	.	.	77.8	-15.4	5.7	73.5
T & I	3689	3508	3408	3277	4674	4404	4276	5073
% Change	.	-4.9	-2.9	-3.8	42.6	-5.8	-2.9	18.6
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Vocational data for 1986-87 and beyond include 7th and 8th grades; data collection process was changed to accommodate funding system.

b) Vocational Enrollment does not include Industrial Arts.

c) Industrial Arts was prevocational until 1984-85; hence no prior data is available.

d) State funding for voc ed was not available for this year--hence, data collection was difficult and far from consistent.

e) Reflects increased emphasis on middle school data.

NOTE: All vocational data are duplicated counts. Figures for 1986-87 and beyond were not limited to schools which had been involved in the federal funding process. Data for 1989-90 include high school, junior high and middle school enrollments.

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ATTACHMENT 1
ENROLLMENT DATA SHEET

NEBRASKA

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	82991	81466	81380	81523	90367	88235	86167	81745
% Change	.	-1.8	-0.1	0.2	10.8	-2.4	-2.3	-5.1
a Vocational	132420	127849	125056	122780	124194	127388	126781	125417
% Change	.	-3.5	-2.2	-1.8	1.2	2.6	-0.5	-1.1
Agriculture	7846	7521	7183	7048	6986	6898	7387	7575
% Change	.	-4.1	-4.5	-1.9	-0.9	-1.3	7.1	2.5
Business	49868	48689	48324	48816	49068	50835	51090	50356
% Change	.	-2.4	-0.7	1.0	0.5	3.6	0.5	-1.4
Health	366	279	417	159	191	241	155	121
% Change	.	-23.8	49.5	-61.9	20.1	26.2	-35.7	-21.9
Non Occ Hm Ec	33751	32996	31077	31132	31077	32225	32143	32317
% Change	.	-2.2	-5.8	0.2	-0.2	3.7	-0.3	0.5
Occ Home Ec	102	204	978	468	1297	420	487	514
% Change	.	100.0	379.4	-52.1	177.1	-67.6	16.0	5.5
Marketing	3263	3362	3026	3352	3723	4285	3927	3406
% Change	.	3.0	-10.0	10.8	11.1	15.1	-8.4	-13.3
Ind Arts	30997	29133	27793	26856	27924	27345	26706	26125
% Change	.	-6.0	-4.6	-3.4	4.0	-2.1	-2.3	-2.2
T & I	6227	5665	6258	4949	3928	5139	4886	5003
% Change	.	-9.0	10.5	-20.9	-20.6	30.8	-4.9	2.4
b Other	557	405	374	367	437	429	407	1973
% Change	.	-27.3	-7.7	-1.9	19.1	-1.8	-5.1	384.8
c Other	.	.	.	.	.	5562	2862	4756
% Change	.	.	.	.	.	.	-48.5	66.2
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Vocational Enrollment does not include "Other" Enrollments.

b) Diversified Occupations

c) Vocational Special Needs

NOTE: All secondary vocational education delivered through comprehensive high schools; there are no area vocational schools. High School Enrollment data are nonduplicated counts; all vocational data are duplicated counts. All data are for grades 9-12.

ATTACHMENT 1
ENROLLMENT DATA SHEET

NEVADA

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	43297	43899	46670	47878	49043	49244	49032	49357
% Change	.	1.4	6.3	2.6	2.4	0.4	-0.4	0.7
a Vocational	15427	.	13394	13075	13238	14076	10945	12253
% Change	.	.	.	-2.4	1.2	6.3	-22.2	12.0
Agriculture	608	.	661	618	387	416	452	499
% Change	.	.	.	-6.5	-37.4	7.5	8.7	10.4
Business	6663	.	5345	5174	5286	5935	5203	6015
% Change	.	.	.	-3.2	2.2	12.3	-12.3	15.6
Health	140	.	.	143	153	139	127	163
% Change	.	.	.	.	7.0	-9.2	-8.6	28.3
Non-Occ Hm Ec	.	.	4812	4373	4416	5193	4679	3524
% Change	.	.	.	-9.1	1.0	17.6	-9.9	-24.7
Occ Home Ec	296	.	170	183	244	175	211	302
% Change	.	.	.	7.6	33.3	-28.3	20.6	43.1
Marketing	14	.	203	164	405	588	693	708
% Change	.	.	.	-19.2	147.0	45.2	17.9	2.2
Ind Arts	.	.	1889	1857	1939	2225	3547	2214
% Change	.	.	.	-1.7	4.4	14.7	59.4	-37.6
T & I	7706	.	7015	6793	6763	6823	4259	4566
% Change	.	.	.	-3.2	-0.4	0.9	-37.6	7.2
b Other	126	.	624	678	375	.	.	.
% Change	.	.	.	8.7	-44.7	.	.	.
c Other	.	.	.	.	.	.	107	119
% Change	.	.	.	.	.	.	.	11.2
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Vocational Enrollments do not include Non-Occupational Home Economics, Industrial Arts and "Other" Enrollments.

b) Not Elsewhere Classified

c) Theatre Design

NOTE: All Enrollment figures are nonduplicated counts for grades 9-12 except Non-occupational Home Economics and Industrial Arts figures which include duplicated counts through 1988-89.

ATTACHMENT 1
ENROLLMENT DATA SHEET

NEW HAMPSHIRE

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
a High School	23873	23526	22960	23071	24806	25181	24097	22228
% Change	.	-1.5	-2.4	0.5	7.5	1.5	-4.3	-7.8
b Vocational	11962	11590	11068	10717	11043	10722	10206	9981
% Change	.	-3.1	-4.5	-3.2	3.0	-2.9	-4.8	-2.2
Agriculture	1837	1570	1525	1455	1422	1392	1372	1350
% Change	.	-14.5	-2.9	-4.6	-2.3	-2.1	-1.4	-1.6
c Business	3585	3488	3393	2904	3036	3122	2860	2607
% Change	.	-2.7	-2.7	-14.4	4.5	2.8	-8.4	-8.8
Health	381	397	359	319	283	244	315	344
% Change	.	4.2	-9.6	-11.1	-11.3	-13.8	29.1	9.2
d Non-Occ Hm Ec	25273	28099	27539	25898	27922	29097	29524	30849
% Change	.	11.2	-2.0	-6.0	7.8	4.2	1.5	4.5
Occ Home Ec	1010	1122	967	1076	1059	1091	1045	1087
% Change	.	11.1	-13.8	11.3	-1.6	3.0	-4.2	4.0
Marketing	857	828	864	858	1039	898	808	800
% Change	.	-3.4	4.3	-0.7	21.1	-13.6	-10.0	-1.0
d Ind Arts	27822	27642	27206	22331	29739	28184	27553	27800
% Change	.	-0.6	-1.6	-17.9	33.2	-5.2	-2.2	0.9
T & I	3924	3680	3396	3416	3426	3274	3182	3178
% Change	.	-6.2	-7.7	0.6	0.3	-4.4	-2.8	-0.1
Other	148	227	172	163	111	134	139	103
% Change	.	53.4	-24.2	-5.2	-31.9	20.7	3.7	-25.9
e Other	220	278	392	526	667	567	485	510
% Change	.	26.4	41.0	34.2	26.8	-15.0	-14.5	5.2
f Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Nonduplicated data for grades 11-12 only.

b) Nonduplicated data for grades 11-12 only (some duplication possible in Agriculture and Special Ed programs). Total Vocational Enrollment does not include Non-Occupational Home Economics and Industrial Arts Enrollments.

c) Vocational Office Occupations only; Business Education is part of academic/general education.

d) Nonduplicated 7 through 12 Enrollment. These programs are part of the State's General Education requirements: consequently, these Enrollments are not included in the total Vocational Enrollment figure. (High School is defines as grades 7 through 12 in this State.)

e) Diversified Occupations

f) STEP - a specialized, multi-occupational, in-school program for vocational special needs students.

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ATTACHMENT 1
ENROLLMENT DATA SHEET

NEW JERSEY

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
a High School	380932	371113	364741	358855	346996	328165	.	.
% Change	.	-2.6	-1.7	-1.6	-3.3	-5.4	.	.
b Vocational	137975	121072	126117	129979	130409	124702	.	.
% Change	.	-12.3	4.2	3.1	0.3	-4.4	.	.
b Agriculture	2434	2387	2346	2308	2239	2127	.	.
% Change	.	-1.9	-1.7	-1.6	-3.0	-5.0	.	.
b Business	208912	204816	201334	198057	192115	182509	.	.
% Change	.	-2.0	-1.7	-1.6	-3.0	-5.0	.	.
b Health	2486	2437	2395	2356	2285	2170	.	.
% Change	.	-2.0	-1.7	-1.6	-3.0	-5.0	.	.
c Non-Occ Hm Ec	72580	71157	69947	68808	66744	63406	.	.
% Change	.	-2.0	-1.7	-1.6	-3.0	-5.0	.	.
Occ Home Ec	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
b Marketing	8654	8485	8341	8205	7958	7560	.	.
% Change	.	-2.0	-1.7	-1.6	-3.0	-5.0	.	.
b Ind Arts	112336	110134	108261	106529	103333	98166	.	.
% Change	.	-2.0	-1.7	-1.6	-3.0	-5.0	.	.
b T & I	32173	31543	31006	30502	29586	28106	.	.
% Change	.	-2.0	-1.7	-1.6	-3.0	-5.0	.	.
d Other	1989	1950	1916	1885	1828	1736	.	.
% Change	.	-2.0	-1.7	-1.6	-3.0	-5.0	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Nonduplicated 9-12 Enrollment

b) Duplicated 9-12 Enrollment

c) Includes total course enrollments in the Home Economics program area

d) Technical

NOTE: 1982-83, 1984-85 and 1985-86 figures are projected based on actual 1983-84 data. This collection is compiled from district reports on a five-year cycle.

ATTACHMENT 1
ENROLLMENT DATA SHEET

NEW MEXICO

	1982-83	1983-84	1984-85	1985-86	1986-87	[a] 1987-88	1988-89	1989-90
High School	98904	117855	117678	117279	117221	117116	116607	116600
% Change	.	.	-0.2	-0.3	-0.0	-0.1	-0.4	-0.0
Vocational	38264	69382	63402	79110	84753	74165	85893	87503
% Change	.	.	-8.6	24.8	7.1	-12.5	15.8	1.9
Agriculture	4292	4139	3910	3846	4212	4128	4477	4402
% Change	.	-3.6	-5.5	-1.6	9.5	-2.0	8.5	-1.7
Business	3230	21239	21429	26546	28882	26891	29498	30945
% Change	.	557.6	0.9	23.9	8.8	-6.9	9.7	4.9
Health	637	563	493	629	316	464	177	218
% Change	.	-11.6	-12.4	27.6	-49.8	46.8	-61.9	23.2
Non-Occ Hm Ec	17150	19851	16753	19776	22482	18167	22830	23689
% Change	.	15.7	-15.6	18.0	13.7	-19.2	25.7	3.8
Occ Home Ec	885	1567	988	828	994	732	885	549
% Change	.	77.1	-36.9	-16.2	20.0	-26.4	20.9	-38.0
Marketing	1857	1853	1570	2344	2345	2216	2196	2381
% Change	.	-0.2	-15.3	49.3	0.0	-5.5	-0.9	8.4
Ind Arts	4777	14685	14264	20745	19924	17715	21551	20648
% Change	.	207.4	-2.9	45.4	-4.0	-11.1	21.7	-4.2
T & I	4831	5051	3763	4188	5466	3700	3928	4269
% Change	.	4.6	-25.5	11.3	30.5	-32.3	6.2	8.7
Other	605	434	238	208	132	152	351	402
% Change	.	-28.3	-45.2	-12.6	-36.5	15.2	130.9	14.5
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Changes in reporting procedures for postsecondary schools led a number of secondary schools to think data would no longer be reported directly to state. Therefore, the decreases in this year are due to erroneous reporting and not necessarily to an actual decline in vocational enrollments.

NOTE: High school enrollments are unduplicated for grades 7-12. Vocational enrollments are duplicated counts; data represent grades 7-12 except for a limited number of school districts where data are for grades 6-12.

ATTACHMENT 1
ENROLLMENT DATA SHEET

NEW YORK

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	934356	915517	908309	892929	869532	834907	791625	.
% Change	.	-2.0	-0.8	-1.7	-2.6	-4.0	-5.2	.
a Vocational	343011	339768	337308	319457	300369	284241	270818	.
% Change	.	-0.9	-0.7	-5.3	-6.0	-5.4	-4.7	.
Agriculture	9227	9232	8128	8061	6689	6357	6030	.
% Change	.	0.1	-12.0	-0.8	-17.0	-5.0	-5.1	.
Business	214330	210513	202772	184986	168229	147755	136977	.
% Change	.	-1.8	-3.7	-8.8	-9.1	-12.2	-7.3	.
Health	13726	14402	12653	11017	9820	8933	8079	.
% Change	.	4.9	-12.1	-12.9	-10.9	-9.0	-9.6	.
Non-Occ Hm Ec	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
Occ Home Ec	8817	7391	10345	7880	9812	10117	11170	.
% Change	.	-16.2	40.0	-23.8	24.5	3.1	10.4	.
Marketing	15531	14648	13749	14302	14410	18480	17158	.
% Change	.	-5.7	-6.1	4.0	0.8	28.2	-7.2	.
b Ind Arts	197862	186223	167691	142130	134151	110270	98542	.
% Change	.	-5.9	-10.0	-15.2	-5.6	-17.8	-10.6	.
T & I	72689	71073	76558	78342	72963	74315	71314	.
% Change	.	-2.2	7.7	2.3	-6.9	1.9	-4.0	.
c Other	8691	12509	13103	14869	18446	18284	20090	.
% Change	.	43.9	4.7	13.5	24.1	-0.9	9.9	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Vocational Enrollments do not include Industrial Arts or Technology Education.

b) In 1986-87, the program area of Industrial Arts was discontinued in New York and a new program entitled Technology took its place.

c) Technical Education

NOTE: Figures for all areas except Industrial Arts & Technology, are nonduplicated. All data are for grades 9-12.

ATTACHMENT 1
ENROLLMENT DATA SHEET

NORTH CAROLINA

	1982-83	[a] 1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	321822	321253	323851	327105	326435	343092	326598	315474
% Change	.	-0.2	0.8	1.0	-0.2	5.1	-4.8	-3.4
Vocational	222568	199663	225196	226857	230483	223699	214763	205180
% Change	.	-10.3	12.8	0.7	1.6	-2.9	-4.0	-4.5
Agriculture	19099	17127	17307	16864	16584	15717	15047	14273
% Change	.	-10.3	1.1	-2.6	-1.7	-5.2	-4.3	-5.1
Business	72536	70953	83288	85472	86230	82420	78979	75064
% Change	.	-2.2	17.4	2.6	0.9	-4.4	-4.2	-5.0
Health	7026	5870	6224	6078	6270	6272	5989	6630
% Change	.	-16.5	6.0	-2.3	3.2	0.0	-4.5	10.7
Non-Occ Hm Ec	34621	29486	34319	31657	31584	30148	31474	30600
% Change	.	-14.8	16.4	-7.8	-0.2	-4.5	4.4	-2.8
Occ Home Ec	7101	5168	4910	5490	5730	5741	4626	4344
% Change	.	-27.2	-5.0	11.8	4.4	0.2	-19.4	-6.1
Marketing	10722	9388	11653	12428	13903	14225	14120	13784
% Change	.	-12.4	24.1	6.7	11.9	2.3	-0.7	-2.4
Ind Arts	13337	12494	12980	14116	14227	13634	12065	10728
% Change	.	-6.3	3.9	8.8	0.8	-4.2	-11.5	-11.1
T & I	48171	42314	45080	46015	47280	46532	44473	41850
% Change	.	-12.2	6.5	2.1	2.7	-1.6	-4.4	-5.9
[b] Other	.	.	11	100	304	517	700	804
% Change	.	.	.	809.1	204.0	70.1	35.4	14.9
[c] Other	6508	4046	6025	6001	5594	5845	4428	4361
% Change	.	-37.8	48.9	-0.4	-6.8	4.5	-24.2	-1.5
[d] Other	3447	2817	3399	2636	2777	2648	2862	2742
% Change	.	-18.3	20.7	-22.4	5.3	-4.6	8.1	-4.2

a) Three local school systems were not included in the 1983-84 data.

b) Principles of Technology

c) Vocational Development

d) Special Programs

NOTE: All data were reported to be nonduplicated counts for grades 9-12.

ATTACHMENT 1
ENROLLMENT DATA SHEET

NORTH DAKOTA

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	35907	34892	35076	34868	34773	34625	33627	32896
% Change	.	-2.8	0.5	-0.6	-0.3	-0.4	-2.9	-2.2
a Vocational	27118	27447	25430	24047	24938	24734	24460	24370
% Change	.	1.2	-7.3	-5.4	3.7	-0.8	-1.1	-0.4
Agriculture	5326	5064	4353	4250	4044	3961	3831	3960
% Change	.	-4.9	-14.0	-2.4	-4.8	-2.1	-3.3	3.4
b Business	2458	2516	2678	2148	2384	2731	2772	2801
% Change	.	2.4	6.4	-19.8	11.0	14.6	1.5	1.0
Health	439	553	460	336	346	410	421	400
% Change	.	26.0	-16.8	-27.0	3.0	18.5	2.7	-5.0
Non-Occ Hm Ec	10236	10039	9337	9263	8793	8908	8632	8340
% Change	.	-1.9	-7.0	-0.8	-5.1	1.3	-3.1	-3.4
Occ Home Ec	445	472	336	356	456	468	591	459
% Change	.	6.1	-28.8	6.0	28.1	2.6	26.3	-22.3
Marketing	1408	1308	1597	1507	1663	1542	1482	1531
% Change	.	-7.1	22.1	-5.6	10.4	-7.3	-3.9	3.3
Ind Arts	4294	4780	4384	4067	4566	4225	4234	4533
% Change	.	11.3	-8.3	-7.2	12.3	-7.5	0.2	7.1
T & I	2470	2674	2245	2098	2654	2446	2467	2310
% Change	.	8.3	-16.0	-6.5	26.5	-7.8	0.9	-6.4
c Other	42	41	40	22	32	43	30	36
% Change	.	-2.4	-2.4	-45.0	45.5	34.4	-30.2	20.0
d Other	.	.	.	20	31	53	29	64
% Change	.	.	.	.	55.0	71.0	-45.3	120.7
e Other	.	.	.	.	594	630	1696	1828
% Change	.	.	.	.	.	6.1	169.2	7.8

a) Vocational Enrollment does not include Sex Equity or Single Parent Programs.

b) Office Education Enrollments only; does not include Business Ed. Please note that the Enrollment system for Office Education changed in 1985-86.

c) Cooperative Education

d) Single Parent/Sex Bias

e) Sex Equity

NOTE: High School Enrollments are nonduplicated; Vocational Enrollments for occupational programs are nonduplicated, for non-occupational they are duplicated. All data are for grades 9-12.

ATTACHMENT 1
ENROLLMENT DATA SHEET

OHIO

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	594425	587056	584117	587569	585716	574121	549328	.
% Change	.	-1.2	-0.5	0.6	-0.3	-2.0	-4.3	.
a Vocational	238362	231505	222980	219868	223111	222822	224207	.
% Change	.	-2.9	-3.7	-1.4	1.5	-0.1	0.6	.
Agriculture	20256	19392	18995	18596	18037	17888	17245	.
% Change	.	-4.3	-2.0	-2.1	-3.0	-0.8	-3.6	.
Business	25483	24614	23291	22252	21523	20818	19567	.
% Change	.	-3.4	-5.4	-4.5	-3.3	-3.3	-6.0	.
Health	4008	4086	3774	3461	3497	3468	3212	.
% Change	.	1.9	-7.6	-8.3	1.0	-0.8	-7.4	.
Non-Occ Hm Ec	103045	101552	98664	99777	103903	104472	108484	.
% Change	.	-1.4	-2.8	1.1	4.1	0.5	3.8	.
Occ Home Ec	7356	6964	6620	6449	6171	6057	6046	.
% Change	.	-5.3	-4.9	-2.6	-4.3	-1.8	-0.2	.
Marketing	19527	19002	18912	18401	18808	18881	19304	.
% Change	.	-2.7	-0.5	-2.7	2.2	0.4	2.2	.
Ind Arts	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
T & I	58687	55895	52724	50932	51172	51238	50349	.
% Change	.	-4.8	-5.7	-3.4	0.5	0.1	-1.7	.
b Other	9024	8223	6592	8236	16616	12563	17498	.
% Change	.	-8.9	-19.8	24.9	101.7	-24.4	39.3	.
c Other	.	.	.	.	1183	914	1347	.
% Change	.	.	.	.	.	-22.7	47.4	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Vocational Enrollment does not include "Other" Enrollments. Data are based on closing Enrollment.

b) Special Needs; increase in 1986-87 due to better identification and more service to special needs population.

c) Entrepreneurship

NOTE: High school Enrollments are nonduplicated; Vocational Enrollments are nonduplicated. All data are for grades 9-12.

ATTACHMENT 1
ENROLLMENT DATA SHEET

OKLAHOMA

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	170632	171122	173406	177876	173302	173336	166892	159431
% Change	.	0.3	1.3	2.6	-2.6	0.0	-3.7	-4.5
a Vocational	73183	72299	71193	72662	72604	74196	73236	71476
% Change	.	-1.2	-1.5	2.1	-0.1	2.2	-1.3	-2.4
Agriculture	18300	18122	17740	17570	18101	18199	18240	17683
% Change	.	-1.0	-2.1	-1.0	3.0	0.5	0.2	-3.1
Business	4056	4027	4312	4318	3870	3890	4086	3933
% Change	.	-0.7	7.1	0.1	-10.4	0.5	5.0	-3.7
Health	864	984	975	938	955	1028	1006	1009
% Change	.	13.9	-0.9	-3.8	1.8	7.6	-2.1	0.3
Non-Occ Hm Ec	26484	26470	26322	28541	29451	30698	29963	30292
% Change	.	-0.1	-0.6	8.4	3.2	4.2	-2.4	1.1
Occ Home Ec	1605	1660	1523	1550	1680	2057	2076	1975
% Change	.	3.4	-8.3	1.8	8.4	22.4	0.9	-4.9
Marketing	3113	2967	3102	2997	3032	3196	3287	3141
% Change	.	-4.7	4.6	-3.4	1.2	5.4	2.8	-4.4
b Ind Arts	.	.	.	1645	2218	2871	3728	2385
% Change	.	.	.	.	34.8	29.4	29.9	-36.0
T & I	15834	15251	14327	14176	13376	15052	14493	13313
% Change	.	-3.7	-6.1	-1.1	-5.6	12.5	-3.7	-8.1
c Other	2706	2663	2681	2436	2069	.	.	.
% Change	.	-1.6	0.7	-9.1	-15.1	.	.	.
c Other	221	155	211	136	70	76	85	130
% Change	.	-29.9	36.1	-35.5	-48.5	8.6	11.8	52.9
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Vocational Enrollments do not include Industrial Arts.

b) Not funded prior to 85-86.

c) CVET (Coordinated Vocational Education & Training); by 1987-88, all these programs had been merged into other occupational divisions.

d) Orientation. More recently, these programs are being offered in the summer months which are not included in the existing database.

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ATTACHMENT 1
ENROLLMENT DATA SHEET

OREGON

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	144855	146302	148208	149143	147811	145017	140533	.
% Change	.	1.0	1.3	0.6	-0.9	-1.9	-3.1	.
a Vocational	39173	37530	36700	37771	42335	44914	45482	.
% Change	.	-4.2	-2.2	2.9	12.1	6.1	1.3	.
Agriculture	4766	4845	4714	5174	5824	6356	6163	.
% Change	.	1.7	-2.7	9.8	12.6	9.1	-3.0	.
Business	18085	17514	17609	17583	20038	20261	20079	.
% Change	.	-3.2	0.5	-0.1	14.0	1.1	-0.9	.
Health	597	608	342	331	446	518	525	.
% Change	.	1.8	-43.8	-3.2	34.7	16.1	1.4	.
Non-Occ Hm Ec	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
Occ Home Ec	2472	2200	2019	1953	2193	2901	3178	.
% Change	.	-11.0	-8.2	-3.3	12.3	32.3	9.5	.
Marketing	2545	2466	2485	2933	3596	3561	3672	.
% Change	.	-3.1	0.8	18.0	22.6	-1.0	3.1	.
Ind Arts	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
T & I	10708	9897	9531	9797	10238	11317	11865	.
% Change	.	-7.6	-3.7	2.8	4.5	10.5	4.8	.
b Other	.	444	1727	1592	1992	2603	2802	.
% Change	.	.	289.0	-7.8	25.1	30.7	7.6	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Vocational Enrollments do not include "Other" Enrollments.

b) Not Elsewhere Classified (includes Diversified Occupations, Hospitality, Recreation, Tourism, and various cluster combinations for unusual occupation mixes).

NOTE: Enrollment is collected only for those programs eligible for Carl Perkins funds; hence no data on Home Economics and Industrial Arts. All reported Enrollment data are nonduplicated counts for grades 9-12.

ATTACHMENT 1
ENROLLMENT DATA SHEET

PENNSYLVANIA

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	589698	573623	565807	562049	546825	529564	500407	480491
% Change	.	-2.7	-1.4	-0.7	-2.7	-3.2	-5.5	-4.0
a Vocational	242069	225449	205762	188963	168535	150507	130718	.
% Change	.	-6.9	-8.7	-8.2	-10.8	-10.7	-13.1	.
Agriculture	12728	11718	11122	10267	9443	8445	6918	.
% Change	.	-7.9	-5.1	-7.7	-8.0	-10.6	-18.1	.
Business	61146	56198	50322	45108	39966	35640	26276	.
% Change	.	-8.1	-10.5	-10.4	-11.4	-10.8	-26.3	.
Health	4866	5168	5081	4557	4210	3593	3262	.
% Change	.	6.2	-1.7	-10.3	-7.6	-14.7	-9.2	.
Non-Occ Hm Ec	54728	50698	44846	46338	45307	37439	32390	.
% Change	.	-7.4	-11.5	3.3	-2.2	-17.4	-13.5	.
Occ Home Ec	10032	9845	9002	8419	7502	6613	6185	.
% Change	.	-1.9	-8.6	-6.5	-10.9	-11.9	-6.5	.
Marketing	8856	7684	7071	6263	5809	5202	4564	.
% Change	.	-13.2	-8.0	-11.4	-7.2	-10.4	-12.3	.
Ind Arts	.	.	.	.	.	600	* 540	.
% Change	.	.	.	.	.	.	-10.0	.
T & I	68686	64511	59569	54848	50822	48330	45604	.
% Change	.	-6.1	-7.7	-7.9	-7.3	-4.9	-5.6	.
Other	12200	11088	10983	5686	5476	5245	5519	.
% Change	.	-9.1	-0.9	-48.2	-3.7	-4.2	5.2	.
b Other	8827	8539	7766	7477	.	.	.	.
% Change	.	-3.3	-9.1	-3.7	.	.	.	.
c Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Vocational Enrollment does not include Industrial Arts. In 1987-88 the PDE began approving programs in Industrial Arts.

b) Not Elsewhere Classified (beginning in 1985-86, Work Experience enrollments were no longer collected).

c) Technical Education; as of 1986-87, Technical Education is included in T&I.

NOTE: All data are nonduplicated counts for grades 9-12.

ATTACHMENT 1
ENROLLMENT DATA SHEET

RHODE ISLAND

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	.	46065	43775	42933	41624	39835	37679	36188
% Change	.	.	-5.0	-1.9	-3.0	-4.3	-5.4	-4.0
a Vocational	35044	37689	35312	31057	28635	26503	23573	22143
% Change	.	.	-6.3	-12.0	-7.8	-7.4	-11.1	-6.1
Agriculture	841	771	765	501	533	397	155	82
% Change	.	-8.3	-0.8	-34.5	6.4	-25.5	-61.0	-47.1
Business	15275	16222	14876	13905	12459	13184	10724	9761
% Change	.	6.2	-8.3	-6.5	-10.4	5.8	-18.7	-9.0
Health	430	237	322	311	300	230	249	387
% Change	.	-44.9	35.9	-3.4	-3.5	-23.3	8.3	55.4
Non-Occ Hm Ec	13860	15969	15596	12226	11742	9386	9650	9710
% Change	.	15.2	-2.3	-21.6	-4.0	-20.1	2.8	0.6
Occ Home Ec	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
Marketing	728	691	512	566	389	287	270	256
% Change	.	-5.1	-25.9	10.5	-31.3	-26.2	-5.9	-5.2
Ind Arts	725	1464	1786	1937	8038	7996	6994	6771
% Change	.	101.9	22.0	8.5	315.0	-0.5	-12.5	-3.2
T & I	3910	3799	3241	3548	3212	3019	2525	1947
% Change	.	-2.8	-14.7	9.5	-9.5	-6.0	-16.4	-22.9
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Vocational Enrollment does not include Industrial Arts.

NOTE: Vocational Enrollments are nonduplicated counts from 1986-87 to present. In previous reporting these data were duplicated counts.

ATTACHMENT 1
ENROLLMENT DATA SHEET

SOUTH CAROLINA

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	185257	182661	181949	182787	185131	184953	179079	.
% Change	.	-1.4	-0.4	0.5	1.3	-0.1	-3.2	.
Vocational	123917	125249	123335	116000	116066	114044	107151	108481
% Change	.	1.1	-1.5	-5.9	0.1	-1.7	-6.0	1.2
Agriculture	9042	8845	7975	7293	6673	6518	6086	5743
% Change	.	-2.2	-9.8	-8.6	-8.5	-2.3	-6.6	-5.6
Business	39021	40172	43907	43476	44342	44091	41543	42263
% Change	.	2.9	9.3	-1.0	2.0	-0.6	-5.8	1.7
Health	1228	1491	1203	1125	1363	1311	1109	1110
% Change	.	21.4	-19.3	-6.5	21.2	-3.8	-15.4	0.1
Non-Occ Hm Ec	28776	28397	27512	23344	22904	21779	20453	19961
% Change	.	-1.3	-3.1	-15.1	-1.9	-4.9	-6.1	-2.4
Occ Home Ec	1839	2069	1841	1953	1697	1795	1748	1877
% Change	.	12.5	-11.0	6.1	-13.1	5.8	-2.6	7.4
Marketing	4357	3982	3763	3529	3668	3722	3622	3316
% Change	.	-8.6	-5.5	-6.2	3.9	1.5	-2.7	-8.4
Ind Arts	4339	4144	4253	3937	3773	3724	2365	2227
% Change	.	-4.5	2.6	-7.4	-4.2	-1.3	-36.5	-5.8
T & I	22765	23485	20416	19565	19501	20242	18392	18695
% Change	.	3.2	-13.1	-4.2	-0.3	3.8	-9.1	1.6
[a] Other	12550	12655	12465	11778	12145	10862	8998	8436
% Change	.	0.8	-1.5	-5.5	3.1	-10.6	-17.2	-6.2
[b] Other	.	.	.	.	.	.	2835	3651
% Change	.	.	.	.	.	.	.	28.8
[c] Other	.	.	.	.	.	.	.	1200
% Change	.	.	.	.	.	.	.	.

a) Prevocational

b) Industrial Technology Education

c) Applied Vocational Math and Principles of Technology

NOTE: All data are nonduplicated counts for grades 9-12.

ATTACHMENT 1
ENROLLMENT DATA SHEET

SOUTH DAKOTA

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	37330	36158	36085	36007	35633	35066	34001	36645
% Change	.	-3.1	-0.2	-0.2	-1.0	-1.6	-3.0	7.8
Vocational	17858	18694	18825	14738	16385	15061	14696	15330
% Change	.	4.7	0.7	-21.7	11.2	-8.1	-2.4	4.3
Agriculture	3221	3345	3156	3003	3435	3604	3400	3451
% Change	.	3.8	-5.7	-4.8	14.4	4.9	-5.7	1.5
Business	662	681	593	659	816	631	620	501
% Change	.	2.9	-12.9	11.1	23.8	-22.7	-1.7	-19.2
Health	354	324	264	256	247	217	209	196
% Change	.	-8.5	-18.5	-3.0	-3.5	-12.1	-3.7	-6.2
Non-Occ Hm Ec	10127	11430	11528	8236	9469	8162	7854	8764
% Change	.	12.9	0.9	-28.6	15.0	-13.8	-3.8	11.6
Occ Home Ec	208	193	188	185	171	147	281	322
% Change	.	-7.2	-2.6	-1.6	-7.6	-14.0	91.2	14.6
Marketing	1144	843	833	765	780	790	702	600
% Change	.	-26.3	-1.2	-8.2	2.0	1.3	-11.1	-14.5
Ind Arts	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
T & I	2142	1878	2263	1634	1467	1510	1432	1333
% Change	.	-12.3	20.5	-27.8	-10.2	2.9	-5.2	-6.9
a Other	.	.	.	.	.	.	198	163
% Change	.	.	.	.	.	.	.	-17.7
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Special Needs

NOTE: High school Enrollments are nonduplicated; Vocational Enrollments are duplicated. All data are for grades 9-12.

ATTACHMENT 1
ENROLLMENT DATA SHEET

TENNESSEE

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	457850	453419	448116	444071	444318	439938	436384	431910
% Change	.	-1.0	-1.2	-0.9	0.1	-1.0	-0.8	-1.0
a Vocational	152580	191110	178294	187126	194092	187729	179402	181394
% Change	.	.	-6.7	5.0	3.7	-3.3	-4.4	1.1
Agriculture	19604	19537	18048	18475	19163	18196	18126	17253
% Change	.	-0.3	-7.6	2.4	3.7	-5.0	-0.4	-4.8
Business	18929	20271	19108	22752	25940	27150	25402	25366
% Change	.	7.1	-5.7	19.1	14.0	4.7	-6.4	-0.1
Health	3482	4483	4029	3850	3974	3983	4046	4209
% Change	.	28.7	-10.1	-4.4	3.2	0.2	1.6	4.0
Non-Occ Hm Ec	53820	48969	47646	47982	46566	46265	42008	44884
% Change	.	-9.0	-2.7	0.7	-3.0	-0.6	-9.2	6.8
Occ Home Ec	.	6957	5282	6429	8939	6714	6619	7069
% Change	.	.	-24.1	21.7	39.0	-24.9	-1.4	6.8
Marketing	10659	10858	10307	10564	11099	11384	11432	11261
% Change	.	1.9	-5.1	2.5	5.1	2.6	0.4	-1.5
Ind Arts	.	36718	33594	33449	33013	28246	26117	25374
% Change	.	.	-8.5	-0.4	-1.3	-14.4	-7.5	-2.8
T & I	46086	43122	40217	43477	45188	45418	44998	45374
% Change	.	-6.4	-6.7	8.1	3.9	0.5	-0.9	0.8
b Other	.	195	63	148	210	373	654	604
% Change	.	.	-67.7	134.9	41.9	77.6	75.3	-7.6
c Other	.	16352	17444	14804	14360	14196	12922	13092
% Change	.	.	6.7	-15.1	-3.0	-1.1	-9.0	1.3
d Other	.	.	.	.	.	.	1487	2777
% Change	.	.	.	.	.	.	.	86.8

a) Vocational Enrollment does not include Special or Pilot Programs.

b) Technical Education

c) Special Programs

d) Pilot programs

NOTE: All data are for grades 6-12. Vocational data are duplicated counts; High School Enrollment are nonduplicated.

ATTACHMENT 1
ENROLLMENT DATA SHEET

TEXAS

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	857103	868761	891337	906419	892061	.	917519	.
% Change	.	1.4	2.6	1.7	-1.6	.	2.9	.
a Vocational	379536	387796	391624	399135	390143	401187	444161	.
% Change	.	2.2	1.0	1.9	-2.3	2.8	10.7	.
Agriculture	60138	59687	55936	54493	55307	58239	86282	.
% Change	.	-0.7	-6.3	-2.6	1.5	5.3	48.2	.
Business	27242	29440	30313	32159	33159	35573	45741	.
% Change	.	8.1	3.0	6.1	3.1	7.3	28.6	.
Health	6356	6599	5671	5951	6330	6458	7534	.
% Change	.	3.8	-14.1	4.9	6.4	2.0	16.7	.
Non-Occ Hm Ec	195147	202265	205548	190272	178900	184743	181859	.
% Change	.	3.6	1.6	-7.4	-6.0	3.3	-1.6	.
b Occ Home Ec	.	.	.	20801	20811	20925	20376	.
% Change	.	.	.	.	0.0	0.5	-2.6	.
Marketing	26520	27467	29760	29663	30011	29970	26221	.
% Change	.	3.6	8.3	-0.3	1.2	-0.1	-12.5	.
Ind Arts	1710	1556	3343	4393	.	.	.	.
% Change	.	-9.0	114.8	31.4	.	.	.	.
T & I	62368	60781	61034	61403	59735	57790	76148	.
% Change	.	-2.5	0.4	0.6	-2.7	-3.3	31.8	.
c Other	1765	1557	3362	4393	5890	7489	.	.
% Change	.	-11.8	115.9	30.7	34.1	27.1	.	.
d Other	.	.	.	15869	17981	17597	.	.
% Change	.	.	.	.	13.3	-2.1	.	.
e Other	.	.	.	.	.	.	56968	.
% Change	.	.	.	.	.	.	.	.

a) Vocational "Enrollment does not include Industrial Arts, Occupational Orientation/Pre-Voc Ed or Industrial Technology enrollments.

b) Data were not collected separately for this activity during 1982-83 through 1984-85.

c) Technical/ beginning in school year 1988-89, these enrollments counted within T&I.

d) Occupational Orientation/Pre-Vocational Education

e) Industrial Technology

NOTE: Data for service areas are for grades 9-12 and are verified for 1985-86 and beyond. High School Enrollments are nonduplicated. Vocational data are nonduplicated for the most part; however, some "overcounting" occurs in all areas as well as some duplication among Non-occupational Home Economics students.

ATTACHMENT 1
ENROLLMENT DATA SHEET

UTAH

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	44243	45147	45374	46867	50184	51760	51876	.
% Change	.	2.0	0.5	3.3	7.1	3.1	0.2	.
Vocational	45225	45020	39730	35638	41789	42876	45611	.
% Change	.	-0.5	-11.8	-10.3	17.3	2.6	6.4	.
Agriculture	5710	3863	3902	4114	4326	3829	4112	.
% Change	.	-32.3	1.0	5.4	5.2	-11.5	7.4	.
Business	29601	28154	27603	31262	33573	35862	32869	.
% Change	.	-4.9	-2.0	13.3	7.4	6.8	-8.3	.
Health	6146	1827	2123	2296	2375	2698	3348	.
% Change	.	-70.3	16.2	8.1	3.4	13.6	24.1	.
Non-Occ Hm Ec	20050	17337	19839	21560	24668	23943	24848	.
% Change	.	-13.5	14.4	8.7	14.4	-2.9	3.8	.
Occ Home Ec	4639	5263	4533	4768	5087	5706	5728	.
% Change	.	13.5	-13.9	5.2	6.7	12.2	0.4	.
Marketing	10936	7380	8335	8860	10471	10880	11981	.
% Change	.	-32.5	12.9	6.3	18.2	3.9	10.1	.
Ind Arts	3708	185	680	11326	13116	13674	13222	.
% Change	.	-95.0	267.6	1565.6	15.8	4.3	-3.3	.
T & I	30841	24778	25044	19823	21637	22315	21916	.
% Change	.	-19.7	1.1	-20.8	9.2	3.1	-1.8	.
a Other	.	.	.	273	488	460	1539	.
% Change	.	.	.	.	78.8	-5.7	234.6	.
b Other	.	.	.	.	.	359	253	.
% Change	.	.	.	.	.	.	-29.5	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Guidance

b) Vocational Core

NOTE: All enrollment data include grades 11-12 only. High School Enrollments are nonduplicated . Some duplication exists in total Vocational Enrollment figures. All data for vocational service areas are duplicated.

ATTACHMENT 1
ENROLLMENT DATA SHEET

VERMONT

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	43344	43005	42500	41501	40281	42659	41340	41057
% Change	.	-0.8	-1.2	-2.4	-2.9	5.9	-3.1	-0.7
Vocational	6515	5122	5000	5126	4888	4471	4430	4046
% Change	.	-21.4	-2.4	2.5	-4.6	-8.5	-0.9	-8.7
Agriculture	648	735	536	476	435	334	464	374
% Change	.	13.4	-27.1	-11.2	-8.6	-23.2	38.9	-19.4
Business	1606	719	1216	1332	946	938	909	782
% Change	.	-55.2	69.1	9.5	-29.0	-0.8	-3.1	-14.0
Health	503	250	172	158	173	117	141	168
% Change	.	-50.3	-31.2	-8.1	9.5	-32.4	20.5	19.1
Non-Occ Hm Ec	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
Occ Home Ec	758	325	579	607	648	547	525	499
% Change	.	-57.1	78.2	4.8	6.8	-15.6	-4.0	-5.0
Marketing	356	306	355	342	337	356	361	384
% Change	.	-14.0	16.0	-3.7	-1.5	5.6	1.4	6.4
a Ind Arts	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
T & I	2644	2787	2142	2208	2349	2179	2030	1839
% Change	.	5.4	-23.1	3.1	6.4	-7.2	-6.8	-9.4
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Vermont does not collect data for these programs.

NOTE: All data are nonduplicated. High school totals are for grades 9-12. Vocational enrollments are for grades 11 and 12.

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ATTACHMENT 1
ENROLLMENT DATA SHEET

VIRGINIA

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	293012	291985	297906	302866	301679	294047	283156	.
% Change	.	-0.4	2.0	1.7	-0.4	-2.5	-3.7	.
Vocational	347062	350955	347856	345380	337278	340492	414946	.
% Change	.	1.1	-0.9	-0.7	-2.3	1.0	21.9	.
Agriculture	23078	21803	20716	20099	19029	19072	20875	.
% Change	.	-5.5	-5.0	-3.0	-5.3	0.2	9.5	.
Business	106037	116445	119762	120113	117720	114716	139778	.
% Change	.	9.8	2.8	0.3	-2.0	-2.6	21.8	.
Health	3333	3449	3361	2942	2913	2900	3106	.
% Change	.	3.5	-2.6	-12.5	-1.0	-0.4	7.1	.
Non-Occ Hm Ec	73451	71021	69303	67922	64361	67124	91024	.
% Change	.	-3.3	-2.4	-2.0	-5.2	4.3	35.6	.
Occ Home Ec	4704	4686	4782	4896	5188	5236	5344	.
% Change	.	-0.4	2.0	2.4	6.0	0.9	2.1	.
Marketing	15050	14208	15068	15637	16020	16498	17187	.
% Change	.	-5.6	6.1	3.8	2.4	3.0	4.2	.
Ind Arts	76750	76279	72065	70967	68761	71597	94294	.
% Change	.	-0.6	-5.5	-1.5	-3.1	4.1	31.7	.
T & I	33067	31139	30849	30378	31049	31148	30755	.
% Change	.	-5.8	-0.9	-1.5	2.2	0.3	-1.3	.
a Other	8928	8826	8374	8789	8422	8191	8578	.
% Change	.	-1.1	-5.1	5.0	-4.2	-2.7	4.7	.
b Other	2664	3099	3576	3637	3761	3930	3898	.
% Change	.	16.3	15.4	1.7	3.4	4.5	-0.8	.
c Other	.	.	.	.	54	80	107	.
% Change	.	.	.	.	.	48.1	33.8	.

a) Disadvantaged

b) Handicapped

c) Gifted (these programs were not offered prior to 1986-87)

NOTE: All data are reported to be nonduplicated counts for grades 9-12.

ATTACHMENT 1
ENROLLMENT DATA SHEET

WASHINGTON

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	232735	234170	239595	242803	242139	236683	.	.
% Change	.	0.6	2.3	1.3	-0.3	-2.3	.	.
Vocational	169889	165505	164971	173217	186052	191134	.	.
% Change	.	-2.6	-0.3	5.0	7.4	2.7	.	.
Agriculture	18242	16989	15625	15917	16200	16116	.	.
% Change	.	-6.9	-8.0	1.9	1.8	-0.5	.	.
Business	58742	60893	62520	65313	72446	71872	.	.
% Change	.	3.7	2.7	4.5	10.9	-0.8	.	.
Health	905	776	583	683	615	637	.	.
% Change	.	-14.3	-24.9	17.2	-10.0	3.6	.	.
Non-Occ Hm Ec	56317	52657	50845	52022	52986	54781	.	.
% Change	.	-6.5	-3.4	2.3	1.9	3.4	.	.
Occ Home Ec	1158	1220	867	1013	1027	1060	.	.
% Change	.	5.4	-28.9	16.8	1.4	3.2	.	.
Marketing	9323	8559	9124	10225	11790	12471	.	.
% Change	.	-8.2	6.6	12.1	15.3	5.8	.	.
Ind Arts	10245	9764	10691	11848	14041	16528	.	.
% Change	.	-4.7	9.5	10.8	18.5	17.7	.	.
T & I	11321	10816	11076	12069	12427	12559	.	.
% Change	.	-4.5	2.4	9.0	3.0	1.1	.	.
a Other	3636	3831	3640	4172	4493	5065	.	.
% Change	.	5.4	-5.0	14.6	7.7	12.7	.	.
b Other	.	.	.	.	27	45	.	.
% Change	.	.	.	.	.	66.7	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Diversified Occupations

b) Technical

NOTE: All data are reported to be nonduplicated counts for grades 9-12.

ATTACHMENT 1
ENROLLMENT DATA SHEET

WEST VIRGINIA

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	103807	99620	98659	99972	100059	104771	98586	98728
% Change	.	-4.0	-1.0	1.3	0.1	4.7	-5.9	0.1
a Vocational	80576	82255	82507	85226	86073	75884	98386	.
% Change	.	2.1	0.3	3.3	1.0	-11.8	29.7	.
Agriculture	5945	5831	5820	5679	5861	5604	5622	.
% Change	.	-1.9	-0.2	-2.4	3.2	-4.4	0.3	.
Business	25553	27352	29079	29761	29511	27976	31805	.
% Change	.	7.0	6.3	2.3	-0.8	-5.2	13.7	.
Health	1369	1275	1264	1269	1276	1247	1315	.
% Change	.	-6.9	-0.9	0.4	0.6	-2.3	5.5	.
Non-Occ Hm Ec	21493	21578	21297	23206	24767	24566	32753	.
% Change	.	0.4	-1.3	9.0	6.7	-0.8	33.3	.
Occ Home Ec	1278	1245	1190	1212	1180	1163	1075	.
% Change	.	-2.6	-4.4	1.8	-2.6	-1.4	-7.6	.
Marketing	3418	3285	3630	3469	3462	3519	3497	.
% Change	.	-3.9	10.5	-4.4	-0.2	1.6	-0.6	.
b Ind Arts	.	.	.	17876	16965	10480	20580	.
% Change	.	.	.	.	-5.1	-38.2	96.4	.
T & I	13814	12974	12172	12472	12445	11809	12328	.
% Change	.	-6.1	-6.2	2.5	-0.2	-5.1	4.4	.
c Other	7657	8641	7974	7964	7494	6021	7125	.
% Change	.	12.9	-7.7	-0.1	-5.9	-19.7	18.3	.
d Other	49	74	81	194	77	140	865	.
% Change	.	51.0	9.5	139.5	-60.3	81.8	517.9	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Vocational Enrollment does not include Industrial Arts.

b) Industrial Arts includes grades 7-12; data not available prior to 1985-86.

c) Career Exploration

d) Remedial

NOTE: High school data are nonduplicated; Vocational data are duplicated. All data (except Industrial Arts) are for grades 9-12.

ATTACHMENT 1
ENROLLMENT DATA SHEET

WISCONSIN

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	211057	214264	203547	193571	190088	188100	.	.
% Change	.	1.5	-5.0	-4.9	-1.8	-1.0	.	.
Vocational	141321	140941	132086	125670	128423	125593	.	.
% Change	.	-0.3	-6.3	-4.9	2.2	-2.2	.	.
Agriculture	8890	9268	7376	7344	6639	6524	.	.
% Change	.	4.3	-20.4	-0.4	-9.6	-1.7	.	.
Business	59857	62956	61431	60537	57529	55020	.	.
% Change	.	5.2	-2.4	-1.5	-5.0	-4.4	.	.
Health	747	838	675	556	358	411	.	.
% Change	.	12.2	-19.5	-17.6	-35.6	14.8	.	.
Non-Occ Hm Ec	16020	15358	13607	14208	13492	12705	.	.
% Change	.	-4.1	-11.4	4.4	-5.0	-5.8	.	.
Occ Home Ec	3002	3059	3106	2571	2762	3657	.	.
% Change	.	1.9	1.5	-17.2	7.4	32.4	.	.
Marketing	5687	5969	5769	6166	6828	6677	.	.
% Change	.	5.0	-3.4	6.9	10.7	-2.2	.	.
Ind Arts	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
T & I	46134	42773	39510	32673	38336	37952	.	.
% Change	.	-7.3	-7.6	-17.3	17.3	-1.0	.	.
[a] Other	984	720	612	1615	2479	2647	.	.
% Change	.	-26.8	-15.0	163.9	53.5	6.8	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Special Needs

NOTE: All data are reported to be nonduplicated counts for grades 9-12 (Vocational also includes some ungraded Enrollments).

ATTACHMENT 1
ENROLLMENT DATA SHEET

WYOMING

	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90
High School	43106	43008	43855	44075	43176	42245	42013	.
% Change	.	-0.2	2.0	0.5	-2.0	-2.2	-0.5	.
Vocational	46663	47979	49984	59006	62619	45322	48687	.
% Change	.	2.8	4.2	18.0	6.1	-27.6	7.4	.
Agriculture	2206	2131	2516	2995	2329	2012	1958	.
% Change	.	-3.4	18.1	19.0	-22.2	-13.6	-2.7	.
Business	13832	15127	15800	20582	21495	14917	14889	.
% Change	.	9.4	4.4	30.3	4.4	-30.6	-0.2	.
Health	578	538	290	873	403	398	249	.
% Change	.	-6.9	-46.1	201.0	-53.8	-1.2	-37.4	.
a Non-Occ Hm Ec	11100	10986	11158	11166	14347	11104	11864	.
% Change	.	-1.0	1.6	0.1	28.5	-22.6	6.8	.
Occ Home Ec	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
Marketing	2024	1647	2172	3997	1429	1264	1503	.
% Change	.	-18.6	31.9	84.0	-64.2	-11.5	18.9	.
Ind Arts	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
b T & I	16923	17550	18048	19395	22616	15627	16504	.
% Change	.	3.7	2.8	7.5	16.6	-30.9	5.6	.
Other	.	.	.	.	.	.	1720	.
% Change	.	.	.	.	.	.	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.
Other	.	.	.	.	.	.	.	.
% Change	.	.	.	.	.	.	.	.

a) Non-occupational Home Economics Enrollments only; does not include Occupational Home Economics.

b) T&I includes Industrial Arts Enrollments, except in school years 1985-86 and 1986-87.

NOTE: All Enrollment data are for grades 7-12. High School Enrollments are nonduplicated; Vocational data are duplicated.